



# ANNUAL SUMMARY

OF

## BIRTHS, DEATHS, AND CAUSES OF DEATH

IN

## LONDON,

## AND OTHER GREAT TOWNS,

1885.

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PUBLISHED BY THE AUTHORITY OF THE REGISTRAR GENERAL OF  
BIRTHS, DEATHS, AND MARRIAGES IN ENGLAND.

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# REGISTRATION LONDON.

**AREA.**—The Area of Registration London is 78,052 acres or 122 square miles, including 2718 acres of tidal water ; this is equal to 31,585 hectares, or 316 square kilometers. The length of the streets and roads is more than 1600 miles. The Area of London being 122 square miles is equal to a square of about 11 miles to the side.

**ELEVATION.**—The population of London resides at a mean elevation of 39 feet (11·9 metres) above Trinity high-water mark ; the elevation varying from 11 feet (3·4 metres) below high-water mark in Plumstead Marshes, to 429 feet (131 metres) above high-water mark in Hampstead.

**HOUSES.**—At the Census in 1881 there were within this area 486,186 inhabited houses, containing an average of 7·8 persons to a house, exactly corresponding with the proportion in 1861 and in 1871.

**ANNUAL RATEABLE VALUE.**—The Annual Rateable Value of Property in the Metropolis, in April 1881, as assessed in accordance with the Valuation (Metropolis) Act, 1869, was £27,402,509.\* (For Annual Rateable Value of Greater London, see Table 8.)

**DENSITY (1885).**—134 persons to a hectare ; 54·2 persons to an acre ; 34,695 to a square mile. (These are calculated exclusive of tidal water.)

**ANNUAL RATE OF INCREASE OF POPULATION PER CENT.** .  $\left\{ \begin{array}{l} 1861-71 . \quad . \quad 1 \cdot 50 \\ 1871-81 . \quad . \quad 1 \cdot 61 \end{array} \right.$

## 1885.

<b>POPULATION</b> . . . . .	$\left\{ \begin{array}{l} \text{Males} \quad . \quad 1,923,447 \\ \text{Females} \quad . \quad 2,160,481 \end{array} \right\}$	<b>PERSONS.</b> 4,083,928
(Estimated to the middle of the year.)		
<b>MARRIAGES</b> . . . . .		34,573
<b>PERSONS MARRIED</b> . . . . .		69,146
<b>ANNUAL RATE OF PERSONS MARRIED PER 1000 OF THE POPULATION</b> . . . . .		16·9
<b>BIRTHS</b> . . . . .	$\left\{ \begin{array}{l} \text{Males} \quad . \quad 67,848 \\ \text{Females} \quad . \quad 64,658 \end{array} \right\}$	<b>PERSONS.</b> 132,506
<b>ANNUAL RATE OF BIRTHS PER 1000 OF THE POPULATION</b> . . . . .		32·6
<b>DEATHS</b> . . . . .	$\left\{ \begin{array}{l} \text{Males} \quad . \quad 40,764 \\ \text{Females} \quad . \quad 39,236 \end{array} \right\}$	<b>PERSONS.</b> 80,000
<b>ANNUAL RATE OF MORTALITY PER 1000</b> . . . . .	$\left\{ \begin{array}{l} \text{Males} \quad . \quad 21 \cdot 2 \\ \text{Females} \quad . \quad 18 \cdot 2 \end{array} \right\}$	<b>PERSONS.</b> 19·7
<b>EXCESS OF REGISTERED BIRTHS OVER DEATHS</b> . . . . .		52,506
<b>ESTIMATED INCREASE OF POPULATION</b> . . . . .		65,086

\* This amount represents the Annual Rateable Value of Property within the District of the Metropolitan Board of Works, as defined by the Metropolis Local Management Act, 1855 (18 & 19 Vict. c. 120.) The District of the Metropolitan Board of Works is identical with that adopted for Poor Law and Registration purposes, except that the hamlet of Penge, in Croydon District, is situated within the District of the Metropolitan Board of Works, but is excluded from Registration London ; and the hamlet of Mottingham, in Lewisham District, is included with Registration London, but excluded from the District of the Metropolitan Board.



# ANNUAL SUMMARY.

## LONDON, AND OTHER GREAT TOWNS, 1885.

*General Register Office, Somerset House,  
27th February, 1886.*

### The Great Towns.

THE twenty-eight great towns of England and Wales that have a place in the Weekly Returns contained an estimated population of 8,906,446 persons in the middle of 1885. The deaths recorded among this population in the course of the year numbered 182,339, and were in the proportion of 20·5 per 1000 living. In each of the two immediately preceding years, 1883 and 1884, the rate had been 21·6, and in 1882 had been 22·3 (*see* Table 2).

The rates varied very greatly in the different towns, and ranged from 17·1 in Brighton and 17·2 in Hull, to 26·1 in Newcastle-upon-Tyne, 26·5 in Manchester, and 27·1 in Preston. Owing, however, to the great differences between one town and another, in regard to the age and sex distribution of their respective populations, these recorded death-rates require correction before they can justly be used for purposes of comparison; and factors were given in the Annual Summary for 1883, by which such necessary correction can be made with approximate accuracy. Applying these factors we have the corrected rates, which are given in the second column of the following Table. In the third column the death-rate for all England and Wales (19·00) has been taken as 1000, and the corrected death-rate in each town has been reduced to a figure comparable with that standard. That third column may be read as follows:—After making due correction for differences of age and sex distribution, the same number of living persons that gave 1,000 deaths in England and Wales gave 926 deaths in Brighton, 933 deaths in Hull, &c. &c., and 1553 deaths in Manchester.

## RECORDED AND CORRECTED DEATH-RATES per 1000 in 28 Great Towns in 1885.

TOWNS, in the order of their Corrected Death-rates.				Recorded Death-rate.	Corrected Death-rate.	Comparative Mortality Figure.
Cols.				1.	2.	3.
ENGLAND AND WALES -				19·00	—	1000
ENGLAND AND WALES } LESS THE 28 TOWNS - }				18·27	17·87	941
28 TOWNS -				20·54	21·89	1152
Brighton - - - -				17·08	17·59	926
Hull - - - -				17·19	17·73	933
Derby - - - -				18·08	18·81	990
Norwich - - - -				20·29	19·41	1022
Bradford - - - -				17·74	19·59	1031
Portsmouth - - - -				19·67	20·26	1066
Bristol - - - -				19·69	20·38	1073
Birmingham - - - -				19·35	20·63	1086
Leicester - - - -				19·77	20·71	1090
Wolverhampton - - - -				20·17	20·80	1095
Birkenhead - - - -				19·47	20·82	1096
London - - - -				19·66	20·87	1098
Nottingham - - - -				19·92	21·11	1111
Leeds - - - -				19·94	21·31	1122
Halifax - - - -				19·66	21·36	1124
Huddersfield - - - -				20·09	22·06	1161
Plymouth - - - -				22·34	22·12	1164
Sheffield - - - -				20·69	22·25	1171
Bolton - - - -				20·85	22·85	1203
Salford - - - -				21·11	22·98	1209
Blackburn - - - -				21·76	23·71	1248
Oldham - - - -				22·01	24·42	1285
Sunderland - - - -				23·84	24·82	1306
Liverpool - - - -				23·82	26·13	1375
Newcastle-on-Tyne - - - -				26·09	27·61	1453
Cardiff - - - -				25·66	27·85	1466
Preston - - - -				27·11	29·44	1549
Manchester - - - -				26·48	29·51	1553

Particulars of the registered mortality in the several Great Towns, and especially of the mortality from the chief zymotic diseases, are given in Tables 1 to 4. The highest death-rates from *small-pox* were in London and Sunderland; from *measles* in Cardiff, Newcastle-upon-Tyne, and Sunderland; from *scarlet fever* in Preston, Leicester, and Sunderland; from *diphtheria* in Portsmouth and Cardiff; from *whooping-cough* in Plymouth, Cardiff, and Blackburn; from *fever* in Portsmouth and Norwich; and from *diarrhœa* in Salford, Leicester, and Preston. The highest death-rates from these seven causes in the aggregate were in Preston, Newcastle-upon-Tyne, Cardiff, and Sunderland.

In fifty other Town Districts (Table 5.) which, though not so large as the twenty-eight Great Towns, are yet of considerable size, and contain in the aggregate a population of nearly 3 millions, the death-rate in the year was 19·6 per 1000, and therefore not very much above the rate (19·0) for all England and Wales. The recorded death-rates ranged in these Town Districts from 13·8 in Barrow-in-Furness, and



in Burton-on-Trent, and 15·2 in Hastings, to 23·5 in Wigan, 24·3 in Merthyr Tydfil, and 24·6 in Stockport.

The infantile death-rate, or proportion of deaths of infants in the first year of life to 1000 registered births, was 138 in England and Wales; 150 in the fifty Large Town Districts, and 155 in the twenty-eight Great Towns. The proportion, however, reached 189 in Cardiff, 193 in Leicester, and 218 in Preston.

## London.

The year 1885 was remarkable from a statistical point of view; for the marriage-rate and the death-rate in London were the lowest on record, and the birth-rate the lowest since 1850.

### MARRIAGES.

The marriages celebrated in London in 1885 numbered 34,573, giving a proportion of 16·9 persons married to 1000 inhabitants. This was the lowest marriage-rate as yet recorded in London; and the two next lowest, moreover, were those of the two immediately preceding years 1883 and 1884, when the rates were 17·9 and 17·6 respectively.

### BIRTHS.

The births registered in London in 1885 (52 weeks) numbered 132,506, and corresponded to an annual rate of 32·6 per 1000 inhabitants. This was the lowest rate on record since 1850, when the rate was 32·0. The excess of births over deaths, or natural increment of the population, was 52,506, or about 1000 a week, a rate of natural growth which was pretty nearly the same as that of the five preceding consecutive years.

### DEATHS.

The deaths registered in the year (52 weeks) were exactly 80,000, and corresponded to an annual rate of 19·7 per 1000 inhabitants. This was the lowest rate on record in London; the two next lowest, moreover, having been those recorded in the two immediately preceding years 1883 and 1884, when the death-rates were 20·5 and 20·4 respectively.

As in 1883 and 1884, so also in 1885, some small share in producing the low death-rate is attributable to the low birth-rate. Had the birth-rate been equal to the average in the preceding decennium (1875-1884), 10,431 more infants would have been born in the year; and, with an infantile death-rate of 148 per 1000 (Table 4.), there would have been 1544 additional infant deaths, which would have raised the general death-rate from 19·7 to 20·0 per 1000, which rate would still have remained the lowest on record.

Had the deaths in London in 1885 equalled the corrected average annual number in the preceding decennium (Table 15), 8412 persons would have died in the year, who, as it was, were alive at its close.

The following Table, which is based on the figures given in Table 15, shows in a summary form the amount of life saved and the amount lost in the year, compared with the mean annual mortality in the previous decennium, under the more important headings in the list of causes.



DIMINUTION OR EXCESS OF DEATHS IN 1885, COMPARED WITH ANNUAL DEATHS IN 1875-84,  
corrected for increase of Population.

CAUSE OF DEATH.	Diminution in 1885.	Excess in 1885.
Small-pox - - - - -	—	328*
Measles - - - - -	—	692
Scarlet Fever - - - - -	1,752	—
Typhus - - - - -	78	—
Whooping-cough - - - - -	781	—
Diphtheria and Croup - - - - -	—	147
Simple and Ill-defined Fevers - - - - -	94	—
Enteric Fever - - - - -	381	—
Diarrhœal Diseases - - - - -	702	—
Hydrophobia - - - - -	—	20
Erysipelas - - - - -	41	—
Alcoholism, &c. - - - - -	50	—
Cancer - - - - -	—	203
Phthisis and Tubercular Diseases - - - - -	1,476	—
Premature Birth - - - - -	—	188
Diseases of Nervous System - - - - -	968	—
Diseases of Circulatory System - - - - -	—	525
Diseases of Respiratory System - - - - -	1,638	—
Diseases of Urinary System - - - - -	—	156
Childbirth and Puerperal Fever - - - - -	64	—
Accident - - - - -	425	—
Murder, Manslaughter - - - - -	26	—
Suicide - - - - -	17	—
All other Causes - - - - -	1,674	—
	10,167	2,259
Balance of Diminution and Excess - - - - -	7,908	—

\* Table 15 shows a diminution of 139 deaths from small-pox; but that Table includes only the deaths registered in London, whereas in the above table the deaths of London residents from small-pox that occurred in the Metropolitan Asylum Hospitals outside Registration London in 1884 and 1885 have been taken into account. This same explanation applies to the figure showing the total saving of life; the balance of saved lives according to Table 15 is 8412, whereas with the additional small-pox deaths the saving is reduced to 7908.

If the foregoing Table be compared with the corresponding Tables in the Annual Summaries for 1883 and 1884, it will be seen that there is a very general agreement between the three as regards the headings which show respectively excess and diminution of mortality.

Thus there is an excess in 1885 under measles, diphtheria and croup, cancer, premature birth, diseases of the circulatory system, and diseases of the urinary organs, and each of these headings also showed excess in 1883 and 1884. On the other hand there is a diminution in 1885 under scarlet fever, typhus, enteric fever, simple continued fever, erysipelas, phthisis, diseases of the nervous system, diseases of the respiratory organs, murder and accident; and there was also diminution under each of these headings in each of the two preceding years.

Under the remaining headings there has not been a similar persistency of change. Diarrhœa, dependent mainly on temperature, showed excess in the hot summer of 1884, but was under the average in the cooler summers of both 1883 and 1885.

Small-pox mortality was below the decennial mean in 1883, but both in 1884 and 1885 was in considerable excess, owing to an outbreak that commenced (Table 24) towards the end of the first quarter of 1884 and lasted to the middle of the third quarter of 1885, or for a period of eighteen months, the beginning and the end of



the outbreak being taken to be the weeks in which the number of registered deaths from this cause exceeded ten for the first and last times respectively. In 351 of the 899 fatal cases in the year 1885 no adequate information was furnished as to whether the deceased had been vaccinated or not. Of the remainder 218 had, and 330 had not, been vaccinated; so that, assuming the ordinarily accepted estimate to be correct that only about five per cent. of the population are unvaccinated, the deaths from small-pox of the unvaccinated would be to the deaths of the vaccinated, out of equal numbers living, as 29 to one.

The mortality from whooping-cough showed a considerable falling off in 1885 as it had also done in 1883, whereas in 1884 it had equalled the average. Some part in the diminished mortality from this disease is probably attributable to the low birth-rates of recent years, owing to which the proportion of infants and young children in the population has undergone reduction.

Under the heading alcoholism there was a diminution of 50 deaths, which is the more satisfactory as there had been an increased mortality from this cause in the two preceding years. Probably in connexion with this decline in fatal intemperance was the decline under suicide, which also had shown excess in 1883 and 1884.

Much alarm was felt in the year by the numerous cases of hydrophobia, and this led to energetic measures on the part of the police in regard to stray dogs. The deaths ascribed to this disease in the year were 27, and not only much in excess of the average, but more numerous than in any previous year; the nearest approach having been in 1877, when 16 deaths from this cause were registered.

Under childbirth and puerperal fever there is in the Table a saving in 1885 of 64 lives; but this apparent saving was in reality due to the low birth-rate. If the deaths from these causes be compared with the births, the childbirth mortality was very nearly the same as in recent years, being in the proportion of 3·8 deaths to 1,000 live births.

Of the diseases mentioned above as having shown a persistent decline for some years, there is one, namely scarlet fever, that deserves special attention. Although a huge town, such as London, apparently supplies all the requisite conditions for the propagation of infectious diseases, and although whooping-cough and measles do, in fact, witness to the presence of such conditions by their almost constant excess, yet for some reason or other the mortality from scarlet fever has for years been lower in London than in the country at large. This was the case in the decennium 1871-80, and also in the first half of the present decennium. On the other hand in the previous decennium 1861-70, no such comparative freedom from scarlet fever was observable; on the contrary, the mortality from this disease was higher in London than in the whole country. It may be suggested as a not impossible explanation of this curious change in the relation of scarlet fever to London, that the decline in mortality may be due to the increasing use of public hospitals for cases of this disease, in other words, to improved isolation. This increased use of hospitals is readily shown by calculating the proportion, of all deaths from scarlet fever, that occur in the Metropolitan Asylum Hospitals. In 1878 the proportion was 5 per cent.; in the next three years, 1879-81, it was from 7 to 8 per cent.; in 1882 the percentage rose to 9·3, in 1883 to 11·4, in 1884 to 16·4, and finally in 1885 to 19·2. This suggestion as to the possible cause of the recent persistently low mortality from scarlet fever in London is, at any rate, one that deserves attention and examination by those engaged in sanitary administration.



The deaths caused by accident in 1885 numbered 2,303, and, after due correction for growth of population, were 425, or 15·6 per cent., below the annual average of the 10 preceding years. The largest saving was in deaths from drowning, which were fewer in 1885 than in any one of the 10 preceding years (Table 16), and fell from an average of 423, or, excluding the year 1878 when the "Princess Alice" accident raised the number to an exceptional figure, from an average of 365 to 233. There was also a not inconsiderable decline in the deaths from suffocation, the bulk of which are deaths of children overlaid by their mothers. These fell from an average of 650 to 574, a decline of 12 per cent.

Among the 2,303 accidental deaths were 266 caused by horses and conveyances in the streets, the number having been almost exactly the same in 1884.

The following Table shows the shares taken in the mortality by different kinds of vehicles, and it will be observed that the increase in the number of fatal accidents from cabs, which was noted in 1883 and 1884, was maintained in 1885. There was also a considerable excess in the accidents caused by private carriages, while on the other hand the accidents caused by omnibuses and tramcars showed considerable reduction.

Year.	Description of Vehicle, &c.									TOTAL.
	Horse, &c.	Carriage.	Omnibus.	Tram-car.	Cab.	Cart.	Van, wagon.	Dray.	Others, and not described.	
1873	13	10	12	17	28	56	75	4	2	217
1874	28	11	17	14	33	36	63	4	5	211
1875	11	15	18	9	39	55	76	6	2	231
1876	13	4	17	12	24	56	78	6	7	217
1877	16	13	13	4	26	56	92	5	2	227
1878	17	12	14	10	34	63	73	11	3	237
1879	16	13	17	18	36	57	66	8	5	236
1880	12	11	20	17	39	43	69	7	2	220
1881	13	14	21	23	31	58	79	9	4	252
1882	12	15	19	23	37	60	95	5	5	271
1883	6	12	16	25	57	45	50	7	4	222
1884	12	11	33	18	57	51	70	4	9	265
1885	12	20	14	11	55	55	84	5	10	266

*Mortality in different parts of London.*—The registered mortality was as usual very unevenly divided between the different parts of London; but it will be seen on referring to Table 13 that in each one of the five great groups of districts the mortality in the year was the lowest on record since 1850. For fair comparison, however, of one group of districts with another, it is necessary to make very considerable correction for the presence in some parts of general hospitals, that admit patients from outside their own areas. In order, then, to enable medical officers of health to carry out the necessary corrections in their own sanitary districts, the following Table has been constructed, in which the hospital deaths have been transferred to the districts from which the patients were admitted, and certain other corrections made as explained in the note to the Table.



DEATHS BELONGING to the SEVERAL SANITARY AREAS of REGISTRATION LONDON,  
registered in the 52 WEEKS of 1885.

SANITARY AREAS.	Deaths.	Deaths from Principal Zymotic Diseases.										Deaths of Infants under 1 Year of Age.	Deaths under 1000 Years to 10000 Births registered.
		Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric Fever.	Simple and Undefined Fever.	Diarrhoea.			
REGISTRATION LONDON	79,441	1,317	2,922	698	890	2,473	28	579	82	2,653	19,595	148	
WEST.													
Paddington	1,881	11	62	8	24	54	1	20	4	59	448	149	
Kensington	2,785	28	110	8	21	99	-	11	-	86	654	132	
Fulham	2,749	27	119	13	22	106	1	17	5	180	822	153	
Chelsea	2,101	6	47	8	33	70	1	16	-	89	559	169	
St. George Hanover Square	1,450	12	21	9	24	19	-	9	2	37	219	124	
Westminster	1,177	9	30	7	11	26	-	8	-	28	286	157	
St. James Westminster	521	2	16	2	1	18	1	3	1	16	85	141	
NORTH.													
Marylebone	3,135	27	111	8	27	57	-	17	2	107	709	149	
Hampstead	693	11	20	4	7	18	-	8	2	12	143	110	
Pancras	4,795	66	196	33	38	152	-	37	4	132	1,123	149	
Islington	5,740	129	294	36	167	210	3	61	12	197	1,387	144	
Hackney	3,606	86	176	31	51	86	2	85	3	120	944	144	
CENTRAL.													
St. Giles	1,103	19	17	4	12	27	-	11	-	26	199	143	
St. Martin-in-the-Fields	340	4	9	1	5	6	-	1	1	5	63	180	
Strand	623	3	14	3	7	18	-	9	1	18	130	168	
Holborn	830	7	19	6	5	11	-	4	-	26	188	196	
Clerkenwell	1,511	25	87	15	13	50	-	6	3	63	373	157	
St. Luke's	1,166	9	44	12	11	38	1	5	2	42	293	151	
London City	1,096	6	15	5	6	27	-	7	-	20	145	176	
EAST.													
Shoreditch	2,764	87	134	62	18	105	-	15	-	107	792	164	
Bethnal Green	2,350	21	161	60	23	96	1	16	5	85	750	145	
Whitechapel	1,474	15	54	20	11	39	2	5	2	53	395	166	
St. George-in-the-East	1,500	15	72	33	10	49	1	2	1	85	338	190	
Stepney	1,595	29	90	41	13	50	1	13	1	37	390	184	
Mile End Old Town	2,136	33	113	58	13	87	-	31	1	59	567	143	
Poplar	3,385	87	153	62	25	89	3	13	6	97	901	146	
SOUTH.													
St. Saviour Southwark	726	11	37	4	8	14	-	2	-	20	151	156	
St. George Southwark	1,494	36	53	5	8	48	-	10	1	58	362	166	
Newington	2,432	69	48	14	25	55	-	20	2	61	636	152	
St. Olave Southwark	230	6	3	-	-	4	-	2	1	14	73	190	
Bermondsey	1,832	55	61	26	18	63	-	11	-	63	434	135	
Rotherhithe	745	24	39	16	8	13	1	7	1	24	189	134	
Lambeth	5,923	88	116	16	71	142	1	32	2	168	1,249	137	
Wandsworth	4,285	37	140	13	37	178	1	45	8	179	1,215	141	
Camberwell	3,979	169	90	20	55	137	5	20	1	123	1,012	141	
Greenwich	2,960	74	83	22	39	128	2	27	4	79	742	142	
Lewisham (excluding Penge)	882	12	34	-	7	33	-	15	1	28	227	129	
Woolwich	764	14	10	1	3	19	-	5	3	22	160	121	
Plumstead (including Motting- ham Hamlet)	1,093	8	30	4	13	37	-	8	-	28	262	112	

NOTE.—In the above Table the deaths in Hospitals and in other Public Institutions have been distributed to the sanitary areas from which the deceased inmates were admitted. The deaths of 504 London residents who died from small-pox in the Metropolitan Asylum Hospitals outside Registration London have been included and similarly distributed; while, on the other hand, the deaths of 1,093 non-residents who died in Public Institutions inside London have been excluded.

If the figures in this Table be taken as the basis, and the rates calculated afresh for the five great groups of districts we have corrected rates as follow:—

West Districts	-	-	17.7 per 1000.
North Districts	-	-	18.5 „
Central Districts	-	-	25.5 „
East Districts	-	-	22.1 „
South Districts	-	-	18.8 „

It will be seen, on comparing these figures with those given in Table 13, that, in the absence of due correction, the death-rate in the West Districts is considerably over-stated, and the death-rate in the Central Districts very considerably under-stated; while the changes in the other three groups are comparatively insignificant.



*Uncertified Deaths.*—In 908 cases, or 1·1 per cent. of the deaths registered, the cause of death was not certified either by a registered medical practitioner or by a coroner; in the two preceding years the proportions of uncertified deaths were 1·2 and 1·3 per cent., respectively. The proportions of uncertified causes of death in the twenty-seven provincial towns ranged from 0·6 in Plymouth, 1·2 in Brighton, and 1·3 in Portsmouth, to 4·8 in Liverpool, 5·6 in Hull, 6·1 in Sheffield, 7·0 in Halifax, and 7·5 in Oldham.

**GREATER LONDON.**—The population of Greater London (Table 7), which is co-extensive with the Metropolitan and City Police Districts, was estimated at 5,199,166 persons in the middle of 1885. The death-rate in this population was 19·2 per 1000 in 1885, against 19·7 in each of the two preceding years. In Inner or Registration London the rate was, as we have seen, 19·7, whereas in the Outer Ring of suburban districts, having an estimated population of more than a million persons, it did not exceed 17·5, and corresponded with the rate in the preceding year. The death-rate from the principal zymotic diseases was 2·78 per 1000 in Greater London, against 2·58 and 3·20 in the two previous years. In Inner London and the Outer Ring the zymotic rates in 1885 were 2·77 and 2·82 per 1000 respectively. It is noticeable that the death-rates from small-pox, diphtheria, and fever, in the Outer Ring in 1885, considerably exceeded those from the same diseases in Inner, or Registration London. The rate of infant mortality, measured by the proportion of deaths under one year to registered births, was 143 per 1000 in Greater London, against 152 in the preceding year; in Inner London the rate was 148, whereas in the Outer Ring of suburban districts it did not exceed 127, showing a considerable decline from the rate in the previous year.

**HEALTH OF FOREIGN CITIES.**—The rate of mortality in twenty-nine Foreign cities (Table 6) averaged 25·8 per 1000 of their estimated population in 1885. In the three principal Indian cities the mean rate was 30·7; the rate was 28·2 in Bombay, 28·9 in Calcutta, and 37·4 in Madras. Small-pox caused 156 deaths in Calcutta, 71 in Bombay, and 24 in Madras; 411 fatal cases of measles occurred in Bombay. The deaths attributed to diarrhoeal diseases, including cholera, were 1562 in Bombay, 1604 in Calcutta, and 2804 in Madras. In twenty-two of the largest European cities, having an estimated population of above ten millions of persons, the mean rate of mortality was 25·7 per 1000, which exceeded by 5·7 the mean rate in the twenty-eight great English towns dealt with in this return. The lowest death-rates in these European cities were 20·4 in Copenhagen, 20·7 in Geneva, 21·1 in Christiania, and 21·6 in Brussels; the rates in the other towns ranged upwards to 29·4 in St. Petersburg and Buda-Pesth, 29·8 in Venice, 30·0 in Breslau, 30·3 in Trieste, and 32·0 in Prague. The rate of mortality in Paris, was 23·5, against rates ranging between 28·6 and 25·5 in the four preceding years; it exceeded the rate in London by 3·8. The deaths in Paris included 3957 from diarrhoeal diseases, 1647 from diphtheria and croup, 1498 from measles, and 1302 from typhoid fever; the fatal cases of typhoid fever showed a further considerable decline from the high numbers returned in recent years. In Berlin, the third European city as regards population, the rate of mortality was 24·6, showing a further decline from 29·0 and 26·4 in 1883 and 1884; the deaths last year included 4394 from diarrhoeal diseases, and 1817 from diphtheria. Small-pox caused 868 deaths in Vienna, 327 in Venice, 241 in Trieste, 230 in Rome, 181 in Buda-Pesth, and 175 in Paris. Diphtheria, again in 1885, showed considerable mortality in



most of the German and Austrian cities, especially in Trieste, Dresden, Hamburg, and Berlin. In four of the largest American cities the mean recorded death-rate was 23·7, and slightly higher than the rate in 1884; in the several cities the rate was 19·8 in Baltimore, 22·0 in Philadelphia, 23·2 in Brooklyn, and 26·2 in New York. Diphtheria showed fatal prevalence in New York, Brooklyn, and Philadelphia; and 594 deaths from typhoid fever were reported in Philadelphia.

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TABLE 1.—28 Towns.—Population; Births, Deaths, and Meteorology, in the 52 Weeks ending 2nd January 1886.

CITIES AND BOROUGHES.	Cols.	POPULATION, Estimated to the middle of 1885.*		Persons to an Acre.	BIRTHS.	DEATHS.	Deaths of		Deaths from										MEAN TEMPERATURE. (Inches).	CITIES AND BOROUGHES.						
		1.	2.				3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.			15.	16.	17.	18.	19.	20.
28 TOWNS	-	8,906,446	35.6	297336	182339	46131	33154	24082	1051	6143	2097	1463	5332	1955	6034	6056	11601	30013	4198	46.8	29.25	-	28 TOWNS.			
LONDON	-	4,083,928	54.2	132506	80000	18594	18278	11261	899	2928	707	896	2479	695	2057	2714	5578	17048	908	48.8†	24.05†	26.48	LONDON.			
BRIGHTON	-	114,672	45.6	2981	1952	380	604	159	1	34	7	18	45	18	36	47	90	288	24	47.9	—	—	BRIGHTON.			
PORTSMOUTH	-	134,659	31.2	4631	2640	606	697	314	-	7	5	41	48	92	121	85	162	316	33	—	—	—	PORTSMOUTH.			
NORWICH	-	91,215	12.2	3052	1844	414	628	190	-	-	8	8	41	92	41	56	108	178	28	—	—	—	NORWICH.			
PLYMOUTH	-	76,045	51.8	2317	1693	361	506	178	-	22	12	10	79	20	35	58	125	164	11	49.1	34.57	—	PLYMOUTH.			
BRISTOL	-	218,169	47.1	6776	4282	1029	1125	503	10	160	24	25	156	21	107	148	369	626	86	47.3	32.07	—	BRISTOL.			
WOLVERHAMPTON.	-	79,185	23.3	2745	1592	384	393	154	-	1	45	9	39	9	51	58	94	280	41	44.8	20.95	—	WOLVERHAMPTON.			
BIRMINGHAM	-	427,769	50.9	14404	8248	2265	1747	868	12	119	28	46	254	73	336	367	710	1359	175	—	—	—	BIRMINGHAM.			
LEICESTER	-	136,147	42.5	4652	2682	896	544	456	-	45	115	15	52	40	189	77	237	339	52	47.5	30.11	—	LEICESTER.			
NOTTINGHAM	-	211,424	21.2	7931	4197	1244	901	495	2	115	30	29	113	47	130	155	254	391	69	46.9	28.41	—	NOTTINGHAM.			
DERBY	-	89,691	26.0	3064	1616	421	412	134	-	26	10	1	41	11	45	42	125	167	28	—	—	—	DERBY.			
BIRKENHEAD	-	93,093	24.2	3212	1806	440	324	228	2	76	80	13	65	14	28	70	134	215	69	—	—	—	BIRKENHEAD.			
LIVERPOOL	-	570,724	111.3	19464	13764	3391	2070	2085	46	716	100	133	386	182	422	580	666	2343	660	47.0	29.63	—	LIVERPOOL.			
BOLTON	-	110,085	45.8	3788	2287	603	468	213	1	36	8	6	60	20	82	65	125	197	63	44.5	48.40	—	BOLTON.			
MANCHESTER	-	337,342	78.6	12225	8902	2136	1561	1034	33	375	63	19	235	72	287	272	667	1715	192	—	—	—	MANCHESTER.			
SALFORD	-	204,975	39.5	6989	4293	1216	707	606	-	178	62	16	129	65	246	112	179	545	173	—	—	—	SALFORD.			
OLDHAM	-	126,390	26.7	4487	2772	747	510	248	-	53	20	15	101	21	38	66	74	265	207	—	—	—	OLDHAM.			
BLACKBURN	-	112,574	16.1	4111	2441	697	472	291	-	1	19	1	143	32	95	53	73	229	62	—	—	—	BLACKBURN.			
PRESTON	-	100,406	27.0	3921	2713	853	552	420	1	7	69	16	96	36	195	41	107	219	79	—	—	—	PRESTON.			
HUDDESFIELD	-	87,327	8.3	2335	1748	397	439	124	-	56	11	3	24	10	20	60	68	163	76	—	—	—	HUDDESFIELD.			
HALIFAX	-	77,378	20.5	2223	1516	233	404	86	1	-	30	8	13	15	19	31	44	172	106	—	—	—	HALIFAX.			
BRADFORD	-	214,431	19.9	6221	3791	889	867	341	2	34	47	18	118	38	84	103	262	321	70	46.1	25.51	—	BRADFORD.			
LEEDS	-	333,139	15.4	11420	6821	1772	1419	731	2	19	210	24	154	74	248	260	498	635	158	47.4	21.89	—	LEEDS.			
SHEFFIELD	-	305,716	15.6	10670	6905	1747	1205	826	8	207	98	11	221	72	209	148	297	612	335	46.6	30.82	—	SHEFFIELD.			
HULL	-	186,292	23.5	6284	3192	803	784	228	9	17	41	8	33	43	78	104	122	328	178	45.6	25.64	—	HULL.			
SUNDERLAND	-	125,327	41.3	4715	2977	744	532	661	17	381	106	12	83	33	79	74	127	237	99	45.5	27.01	—	SUNDERLAND.			
NEWCASTLE	-	153,269	28.5	5848	3884	1007	666	676	3	344	77	25	52	74	101	107	246	382	115	—	—	—	NEWCASTLE.			
CARDIFF	-	97,034	13.2	4164	2481	787	339	482	2	191	25	39	112	37	76	103	170	277	45	—	—	—	CARDIFF.			

\* These estimates are based upon the numbers enumerated at the Census in April 1881, and raised to the middle of 1885 by the addition of  $\frac{1}{4}$  times the annual rate of increase that prevailed between 1871 and 1881.

† For the temperature and rainfall in the Calendar year, see Table 28.



TABLE 2.—28 Towns.—Birth-rate, Death-rate, and Analysis of the Mortality, in the 52 Weeks ending 2nd January 1886.

CITIES AND BOROUGHES.	ANNUAL RATES PER 1000 PERSONS LIVING.										CITIES AND BOROUGHES.										
	Total Deaths.					Deaths from															
	Births in 52 Weeks ending		52 or 53 Weeks ending			Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.		Typhoid Fever.	Diphtheria.	Violence.							
	30th Dec. 1885.	29th Dec. 1885.	3rd Jan. 1886.	2nd Jan. 1886.	Diseases of 2, 3, & 4 Cols.																
Cols.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	Cols.
28 TOWNS	33.5	22.8	21.6	21.6	20.5	27.7	0.12	0.69	0.24	0.17	0.60	0.20	0.69	0.88	155	12.0	74.5	6.4	16.5	2.3	- 28 TOWNS.
LONDON	32.6	21.4	20.4	20.3	19.7	27.7	0.22	0.72	0.17	0.22	0.61	0.17	0.66	0.67	148	12.0	71.5	7.0	21.3	1.1	LONDON.
BRIGHTON	26.1	21.7	19.2	18.0	17.1	1.23	0.01	0.30	0.06	0.16	0.39	0.16	0.31	0.41	131	9.4	66.8	4.6	14.8	1.2	BRIGHTON.
PORTSMOUTH	34.5	21.5	18.6	19.4	19.7	2.34	0.00	0.05	0.04	0.31	0.36	0.69	0.89	0.63	131	11.1	75.6	6.1	12.0	1.3	PORTSMOUTH.
NORWICH	33.6	20.6	19.6	21.2	20.3	2.09	0.00	0.00	0.00	0.09	0.45	1.01	0.45	0.62	136	10.0	76.0	5.9	9.7	1.5	NORWICH.
PLYMOUTH	30.6	21.2	20.9	21.0	22.3	2.35	0.00	0.20	0.16	0.13	1.04	0.26	0.47	0.77	136	12.4	72.8	7.4	9.7	0.6	PLYMOUTH.
BRISTOL	31.2	19.2	17.9	18.4	19.7	2.31	0.05	0.74	0.11	0.11	0.72	0.10	0.48	0.68	152	10.9	74.9	7.2	14.6	2.0	BRISTOL.
WOLVERHAMPTON	34.8	22.4	21.3	23.4	20.2	1.94	0.00	0.01	0.57	0.11	0.49	0.11	0.65	0.73	140	11.4	78.0	5.9	17.6	2.6	WOLVERHAMPTON.
BIRMINGHAM	33.8	20.9	21.3	21.4	19.3	2.04	0.03	0.28	0.07	0.11	0.60	0.17	0.78	0.86	137	10.8	77.5	8.6	16.5	2.1	BIRMINGHAM.
LEICESTER	34.3	20.1	19.4	22.1	19.8	3.36	0.00	0.33	0.85	0.11	0.38	0.20	1.40	0.57	103	10.1	66.9	9.6	12.6	1.9	LEICESTER.
NOTTINGHAM	37.6	23.6	21.3	22.9	19.9	2.35	0.01	0.55	0.14	0.14	0.34	0.23	0.75	0.74	157	10.7	69.0	6.1	9.3	1.6	NOTTINGHAM.
DERBY	34.3	18.7	18.1	18.4	18.1	1.50	0.00	0.20	0.11	0.01	0.46	0.12	0.51	0.47	137	9.6	81.4	7.7	10.3	1.7	DERBY.
BIRKENHEAD	34.6	20.1	19.0	19.6	19.5	2.46	0.02	0.82	0.32	0.14	0.70	0.15	0.31	0.75	137	12.3	66.6	7.4	11.9	3.8	BIRKENHEAD.
LIVERPOOL	33.7	26.5	26.7	25.2	23.8	3.61	0.03	1.24	0.33	0.23	0.69	0.32	0.72	1.00	174	15.6	71.8	4.8	16.9	4.8	LIVERPOOL.
BOLTON	34.5	23.0	21.7	24.1	20.8	1.94	0.01	0.33	0.07	0.06	0.55	0.18	0.74	0.39	160	12.0	87.7	5.5	8.6	2.8	BOLTON.
MANCHESTER	36.4	26.7	27.6	26.4	26.5	3.07	0.10	1.12	0.19	0.06	0.70	0.21	0.69	0.81	175	16.8	91.9	7.5	19.3	2.2	MANCHESTER.
SALFORD	34.4	23.2	22.4	22.3	21.1	3.42	0.00	0.88	0.30	0.08	0.63	0.32	1.21	0.55	174	12.6	76.7	4.2	12.7	4.0	SALFORD.
OLDHAM	35.6	24.6	22.0	24.5	22.0	1.97	0.00	0.42	0.16	0.12	0.80	0.17	0.30	0.52	166	13.0	88.9	2.7	9.6	7.5	OLDHAM.
BLACKBURN	36.6	25.1	24.5	24.1	21.8	2.59	0.00	0.01	0.17	0.01	1.27	0.20	0.84	0.47	170	12.3	85.0	3.0	9.4	2.5	BLACKBURN.
PRESTON	39.2	27.6	25.5	27.3	27.1	4.20	0.01	0.07	0.69	0.16	0.96	0.36	1.95	0.41	218	14.3	96.7	3.9	8.1	2.9	PRESTON.
HUDDESFIELD	29.1	22.3	21.3	19.6	20.1	1.42	0.00	0.64	0.13	0.03	0.28	0.11	0.23	0.69	157	11.5	84.4	3.9	9.4	4.5	HUDDESFIELD.
HALIFAX	28.8	20.4	20.0	23.4	19.7	1.12	0.01	0.00	0.39	0.10	0.17	0.19	0.26	0.40	132	11.7	81.0	2.9	11.3	7.0	HALIFAX.
BRADFORD	29.1	21.2	18.3	20.1	17.7	1.60	0.01	0.16	0.22	0.08	0.55	0.18	0.40	0.48	143	10.4	78.5	6.9	8.5	2.0	BRADFORD.
LEEDS	34.4	23.2	23.3	24.2	19.9	2.20	0.01	0.06	0.63	0.07	0.46	0.22	0.75	0.78	154	11.3	79.9	7.5	9.6	2.4	LEEDS.
SHEFFIELD	35.0	21.7	22.9	22.4	19.7	2.71	0.03	0.68	0.32	0.04	0.73	0.24	0.67	0.49	164	12.0	80.9	3.6	9.6	6.1	SHEFFIELD.
HULL	33.8	23.2	22.8	21.1	17.2	1.23	0.03	0.09	0.22	0.04	0.18	0.23	0.42	0.56	128	9.5	68.2	3.8	10.3	5.6	HULL.
SUNDERLAND	37.8	26.5	24.5	23.1	23.8	5.29	0.14	3.05	0.85	0.10	0.26	0.26	0.63	0.59	138	15.0	73.4	4.3	8.0	3.3	SUNDERLAND.
NEWCASTLE	38.3	23.1	25.5	23.1	26.1	4.43	0.02	2.25	0.50	0.16	0.34	0.48	0.68	0.70	172	16.6	78.5	6.2	9.6	2.9	NEWCASTLE.
CARDIFF	43.1	20.0	20.2	24.4	25.7	4.98	0.02	1.98	0.26	0.40	1.16	0.38	0.78	1.07	189	15.1	78.0	6.9	11.2	1.8	CARDIFF.

TABLE 3.—28 Towns.—Mean Temperature, and Annual Rate of Mortality, in each Week of 1885.

Number of Week.	WEEKS ENDING	MEAN TEM- PERATURE AT GREEN- WICH.		ANNUAL RATE OF MORTALITY PER 1000 IN																												
		Fahrenheit.	Centigrade.																													
				TWENTY-EIGHT TOWNS.	LONDON.	BRIGHTON.	PORTSMOUTH.	NORWICH.	PLYMOUTH.	BRISTOL.	WOLVERHAM- PTON.	BIRMINGHAM.	LEICESTER.	NOTTINGHAM.	DERBY.	BIRKENHEAD.	LIVERPOOL.	BOLTON.	MANCHESTER.	SALFORD.	OLDHAM.	BLACKBURN.	PRESTON.	HUDDESFIELD.	HAIRFAIR.	BRADFORD.	LEEDS.	SHEFFIELD.	HULL.	SUNDERLAND.	NEWCASTLE.	CARDIFF.
1	Jan.	38.0	3.33	24.9	25.0	19.1	20.9	28.0	30.2	25.6	30.3	23.7	31.0	22.7	20.4	26.3	27.5	19.0	30.9	22.2	23.9	23.2	34.8	22.7	22.3	20.4	20.5	19.6	27.5	22.1	27.6	38.0
2	"	35.1	1.73	24.2	23.7	19.1	23.6	29.7	31.6	27.3	31.6	27.6	21.5	20.2	19.2	25.8	24.5	31.3	29.7	22.2	23.9	29.7	29.6	22.7	23.0	20.9	22.4	20.8	16.0	23.3	21.5	32.8
3	"	34.0	-0.06	24.0	23.1	16.4	23.2	30.3	25.4	23.2	31.9	26.0	20.9	23.4	18.0	20.7	28.2	24.2	28.0	25.8	20.2	17.6	20.7	23.7	24.3	20.0	21.0	24.4	19.6	26.2	21.8	40.9
4	"	31.9	6.45	24.5	24.1	20.9	29.8	30.6	30.2	26.3	25.0	23.7	20.7	25.2	18.0	13.5	27.1	21.8	26.5	17.6	28.5	26.4	32.7	27.5	22.9	22.6	25.8	23.7	19.0	27.5	22.8	34.9
5	Feb.	43.6	6.45	21.8	20.3	25.9	20.9	27.5	21.3	30.4	25.0	24.5	23.8	21.2	19.8	15.1	25.4	23.2	29.1	16.6	21.5	16.2	32.2	19.7	20.2	19.5	20.2	16.7	21.6	26.6	22.8	24.2
6	"	44.2	7.89	20.9	19.5	16.8	21.3	27.5	25.4	19.9	21.7	19.8	19.5	21.7	15.1	13.5	24.8	21.8	24.9	15.1	24.8	22.7	31.2	18.5	22.3	19.0	19.4	22.0	22.7	32.5	26.2	33.3
7	"	41.0	6.66	20.5	19.1	11.8	18.6	21.2	17.2	21.5	16.5	21.0	20.3	20.0	10.2	15.7	22.7	23.2	23.8	20.2	24.8	23.2	33.8	23.9	19.6	17.0	19.4	20.3	17.4	37.9	27.6	33.3
8	"	45.8	7.67	21.4	20.0	19.6	13.9	29.2	26.8	24.4	20.4	19.4	18.4	23.9	22.1	20.2	25.7	25.6	24.6	26.8	18.6	21.3	32.2	14.3	16.9	18.7	19.7	21.8	15.7	29.6	30.3	31.7
9	March	40.3	4.61	20.6	19.1	11.8	22.9	21.7	15.8	21.8	15.2	17.7	22.2	24.4	18.0	16.8	22.5	28.9	26.9	19.4	22.3	19.0	20.1	19.7	19.6	21.7	19.1	17.6	14.6	42.1	29.3	37.6
10	"	38.2	3.44	22.1	21.4	16.8	15.5	22.9	22.0	23.4	23.1	19.4	20.7	25.2	18.0	13.5	25.6	19.9	28.6	19.2	33.9	22.7	22.3	20.9	22.9	19.5	19.9	20.7	16.0	48.3	27.6	20.4
11	"	41.9	5.50	23.5	21.4	18.2	17.4	23.5	22.0	27.0	27.7	24.0	21.5	20.2	14.0	17.4	28.3	26.1	32.9	21.7	27.7	26.0	23.4	28.3	27.0	23.1	23.6	23.6	20.4	44.1	29.6	31.7
12	"	39.1	3.45	23.2	22.2	18.7	17.8	21.2	20.6	28.2	25.7	19.4	24.1	20.0	18.0	21.3	25.0	19.0	31.2	21.7	33.9	23.2	26.5	19.7	22.9	18.5	23.0	21.3	21.8	40.4	31.7	41.9
13	Apr.	43.3	6.00	23.1	21.7	19.1	21.3	32.6	19.9	25.4	19.8	20.2	15.7	21.7	22.1	21.9	24.4	22.7	28.9	20.2	34.7	23.7	34.3	27.5	20.2	17.8	21.9	22.5	21.3	40.4	33.7	29.6



4	April	11	41.9	5.50	25.0	23.8	20.0	22.1	21.2	24.7	25.4	24.4	25.7	22.6	26.7	20.9	26.9	24.7	23.7	36.0	23.0	25.2	25.5	33.8	35.8	28.3	25.1	30.5	23.6	22.4	28.7	41.9	31.7
5	"	16	45.6	7.56	23.2	21.8	23.2	19.0	21.2	35.7	26.8	23.1	24.2	22.1	17.8	16.3	17.9	23.9	21.8	35.9	20.7	23.9	23.8	25.1	20.3	20.9	24.3	23.8	25.1	16.2	32.9	32.4	33.3
6	"	25	54.7	12.61	23.4	22.3	18.2	17.4	21.7	24.7	26.5	23.1	18.8	18.4	19.2	15.7	15.1	20.2	21.3	29.9	22.2	23.9	30.6	32.2	20.9	20.2	20.2	21.3	23.9	22.1	31.2	35.4	34.9
7	May	2	51.9	11.06	21.1	19.8	15.9	16.7	18.9	19.2	22.5	20.4	21.8	20.3	17.5	15.1	20.2	21.3	15.2	30.6	18.7	25.6	30.1	32.7	24.5	26.3	23.1	23.0	22.0	15.1	23.7	34.4	16.1
8	"	9	46.7	8.17	20.2	18.7	14.1	17.8	16.6	13.0	17.9	25.0	19.4	15.3	18.0	20.9	20.7	23.4	15.2	35.0	24.0	26.4	26.4	28.4	23.9	20.2	19.0	20.4	19.5	17.9	21.6	36.8	24.7
9	"	16	47.4	8.55	20.4	19.1	10.9	22.1	22.9	20.6	15.9	19.1	17.9	18.3	19.0	15.1	19.6	23.4	26.7	23.3	23.9	23.3	28.3	28.6	23.9	20.2	19.8	20.5	24.9	18.8	25.0	30.3	22.0
10	"	23	53.0	11.33	21.1	19.9	18.7	21.7	22.9	19.2	18.4	21.7	20.9	18.5	22.0	18.0	22.0	23.1	18.9	29.1	18.9	29.1	31.5	30.3	20.3	17.3	20.2	20.8	24.1	20.1	30.0	25.8	
11	"	30	48.4	9.33	21.0	19.6	14.6	22.5	21.2	26.8	21.8	19.1	20.5	19.9	17.8	15.7	22.4	25.5	19.4	27.1	17.9	26.4	28.7	34.3	21.5	17.5	18.5	19.0	21.2	21.3	20.8	29.6	28.5
12	June	6	62.6	17.01	20.5	19.4	10.0	15.1	10.9	15.8	18.7	13.2	23.3	16.5	23.4	16.9	26.3	21.0	23.7	33.6	18.4	24.8	21.3	25.5	20.3	13.5	19.7	19.4	24.6	17.6	18.3	31.0	22.6
13	"	13	58.5	14.72	18.6	16.8	17.3	13.5	20.0	28.1	15.3	14.1	17.1	16.9	16.3	10.5	20.7	23.4	22.3	26.5	20.7	22.2	23.5	15.6	20.3	14.2	15.3	17.9	23.7	19.9	13.7	35.4	18.8
14	"	20	53.7	14.83	18.3	16.4	15.0	13.6	18.3	20.7	15.1	13.8	19.1	17.7	10.5	19.6	23.2	21.3	25.5	22.2	18.2	25.5	20.3	22.7	14.2	16.1	17.7	20.8	17.4	17.5	24.2	31.7	
15	"	27	58.3	14.61	17.6	16.3	13.6	16.7	17.2	21.3	12.0	13.2	16.5	15.7	12.6	11.1	21.3	21.3	16.1	30.6	17.9	16.2	15.1	16.1	22.3	18.7	20.0	20.5	12.9	18.3	28.6	21.5	
16	July	4	60.5	15.84	18.0	17.5	14.1	13.5	17.7	16.5	13.6	19.1	12.8	14.6	14.1	16.3	16.8	21.1	15.6	24.4	21.5	20.6	21.8	21.3	19.7	27.6	13.4	19.7	21.5	15.4	18.7	23.5	19.9
17	"	11	65.0	18.33	18.3	18.0	15.5	16.7	21.2	24.0	15.5	16.5	16.7	16.1	13.8	12.2	21.9	21.4	13.7	35.8	21.0	17.3	18.1	18.7	16.7	13.5	15.3	15.3	18.8	15.7	21.6	24.2	22.0
18	"	18	61.2	16.22	19.4	20.6	13.2	14.3	21.7	15.1	14.1	16.5	15.0	23.8	15.8	14.0	19.6	22.1	17.5	33.8	18.7	16.1	16.2	17.2	16.1	11.5	12.2	18.0	21.2	13.4	18.3	36.9	19.9
19	"	25	64.5	18.06	19.5	20.9	9.1	14.3	10.9	16.5	13.6	11.2	16.5	36.4	17.0	14.5	15.7	21.2	11.4	24.6	18.7	15.3	18.1	27.0	18.5	18.9	16.3	16.9	17.1	14.6	21.2	36.2	19.9
20	August	1	63.2	18.44	21.1	22.4	15.0	18.6	17.2	11.7	18.9	13.2	17.6	30.3	17.0	18.0	20.2	21.4	18.0	35.7	22.5	13.2	22.7	24.4	19.1	20.9	15.6	23.5	19.5	16.2	19.2	25.2	21.0
21	"	8	59.4	15.22	21.8	22.0	20.0	18.2	16.0	15.8	21.3	18.2	17.7	32.2	22.0	10.2	15.7	24.9	14.2	24.3	23.8	16.1	14.4	31.2	21.5	18.9	23.8	23.2	21.5	17.1	23.7	26.2	25.3
22	"	15	59.6	15.34	20.5	18.8	22.3	16.3	20.0	22.0	15.2	15.2	23.7	20.3	15.3	10.5	14.6	23.0	14.2	30.5	27.4	18.2	20.4	33.8	19.1	18.9	23.8	21.5	17.1	23.7	26.2	25.3	
23	"	22	58.2	14.55	18.7	18.5	14.6	21.7	14.9	21.3	17.2	21.1	20.7	22.2	17.3	33.9	18.5	25.0	10.9	24.4	22.8	13.2	19.0	30.1	18.5	13.5	12.7	19.4	24.2	12.6	20.0	35.3	24.2
24	"	29	57.6	14.23	18.4	17.5	20.9	23.6	14.9	24.7	15.5	21.7	17.9	14.6	15.3	20.4	19.6	20.3	13.7	21.5	24.5	15.3	15.7	18.5	27.5	16.1	16.2	17.3	18.6	18.4	17.4	22.9	21.8
25	Sept.	5	57.2	14.00	18.0	15.8	16.4	23.9	17.7	19.9	15.8	16.5	17.8	22.2	17.3	23.1	20.7	23.9	19.0	24.6	23.0	21.1	18.1	34.4	8.4	17.5	18.0	17.5	17.8	15.1	23.3	20.4	25.3
26	"	12	56.5	13.50	17.3	15.6	19.3	13.2	20.7	23.3	18.1	13.5	16.1	13.3	12.0	13.0	20.7	23.2	13.5	33.2	21.7	18.6	31.3	37.5	96.9	16.6	14.1	15.3	12.6	13.7	25.2	24.3	
27	"	19	56.7	14.28	17.1	15.7	17.3	20.7	15.9	17.7	16.7	13.8	12.1	18.0	10.7	16.9	20.7	23.2	13.5	30.6	20.5	21.4	25.7	30.6	14.4	14.6	14.4	15.6	11.6	15.3	17.1	23.7	
28	"	26	52.7	11.50	15.9	13.8	16.8	11.3	22.0	14.0	13.8	12.6	12.6	18.0	15.8	14.4	15.7	21.4	23.7	20.6	17.4	14.5	18.1	53.3	14.3	14.3	14.3	14.3	14.3	11.8	30.0	19.1	23.0
29	October	3	49.6	9.73	17.6	16.0	13.0	22.9	13.7	24.0	17.7	21.7	17.6	19.9	13.6	17.5	12.9	23.3	13.3	22.4	18.9	26.0	17.2	18.2	14.9	13.5	16.3	18.5	20.0	14.0	16.2	23.8	25.3
30	"	10	47.6	8.67	17.6	16.7	13.5	21.3	16.6	23.3	14.1	13.8	15.6	13.8	15.1	14.0	14.6	22.5	19.0	23.7	20.2	17.8	14.8	38.6	14.3	16.9	15.1	17.7	20.1	16.8	19.3	20.1	22.6
31	"	17	45.4	7.44	17.7	17.2	18.2	17.4	18.9	20.6	15.5	11.4	13.7	17.1	11.1	14.3	16.9	19.1	19.9	23.0	23.4	18.7	23.1	22.7	19.8	13.7	13.7	13.7	13.7	13.7	13.7	13.7	23.1
32	"	24	45.1	7.28	18.5	18.6	20.5	15.9	11.4	21.3	15.7	18.4	15.7	14.8	14.8	15.1	20.7	22.4	23.2	19.2	18.6	23.7	16.7	20.3	13.7	18.2	13.6	17.4	18.1	14.0	17.1	22.5	21.0
33	"	31	44.0	6.67	18.0	17.5	23.7	15.1	9.7	24.0	18.7	17.8	14.0	17.6	14.0	19.8	17.4	23.4	15.4	21.8	21.2	21.5	16.7	20.3	13.7	14.3	18.6	17.1	15.7	14.2	19.8	21.0	
34	Nov.	7	44.6	7.01	19.9	18.9	13.6	20.1	20.6	26.1	20.3	20.4	16.3	15.7	20.0	16.9	23.5	24.4	28.9	27.1	18.1	28.4	24.6	33.3	17.9	13.5	16.3	18.6	19.6	16.2	15.0	22.5	19.9
35	"	14	43.3	6.28	19.4	19.6	16.8	20.1	16.6	20.6	19.1	25.0	17.7	13.4	19.3	20.9	18.5	24.6	28.2	23.4	18.7	23.1	22.7	23.5	16.7	19.6	15.6	21.9	17.9	14.8	18.7	18.7	22.6
36	"	21	38.1	3.99	19.8	19.8	10.7	17.3	21.7	17.2	13.7	19.1	23.7	17.2	19.2	20.7	27.9	18.5	21.5	25.1	24.7	18.9	17.3	23.9	19.6	11.2	19.9	23.9	19.6	11.2	18.7	19.1	18.3
37	"	28	45.1	7.28	21.3	20.6	28.2	26.0	22.9	26.8	18.2	21.1	21.6	14.9	25.7	28.5	17.4	23.8	28.5	23.0	24.5	17.8	18.5	34.3	26.9	20.2	19.5	18.5	18.8	16.2	21.6	22.8	17.7
38	Dec.	5	44.8	7.12	20.2	19.7	21.4	22.1	18.1	16.5	17.7	19.1	16.7	19.9	23.7	23.3	11.2	23.5	31.3	23.5	20.7	23.5	24.1	22.9	15.5	18.9	19.5	19.4	15.2	17.4	18.3	21.5	23.1
39	"	12	52.7	9.39	20.3	18.8	15.9	20.1	18.9	27.5	18.0	19.1	16.6	16.9	22.5	20.9	23.0	24.6	31.8	24.1	21.0	22.2	23.9	21.3	23.3	18.9	15.3	20.3	21.6	22.2	17.5	23.5	22.0
40	"	19	42.4	5.78	23.0	20.2	16.4	26.3	13.9	41.2	19.6	19.1	22.7	21.5	33.8	28.3	26.5	26.8	30.3	26.5	22.2	23.9	16.7	24.9	18.5	23.6	18.5	23.3	23.2	20.7	23.8	21.5	
41	"	26	39.3	4.06	17.3	18.0	13.6	16.9	16.0	19.2	12.8	18.4	17.3	14.2	24.7	21.5	26.3	22.4	28.4	21.7	20.5	21.9	23.6										

(1886.)

TABLE 4.—28 Towns.—Death-rate from All Causes, and from the Principal Zymotic Diseases, and Infant Mortality, in the Ten Years 1875-84, and in 1885.

TOWNS.	ALL CAUSES.		SMALL-POX.		MEASLES.		SCARLET FEVER.		DIPHTHERIA.		WHOOPING-COUGH.		FEVER.		DIARRHŒA.		DEATHS UNDER ONE YEAR TO 1000 BIRTHS.	
	Ten years 1875-84.	1885.	Ten years 1875-84.	1885.	Ten years 1875-84.	1885.	Ten years 1875-84.	1885.	Ten years 1875-84.	1885.	Ten years 1875-84.	1885.	Ten years 1875-84.	1885.	Ten years 1875-84.	1885.	Ten years 1875-84.	1885.
<b>28 TOWNS.</b>	22.9	20.5	0.16	0.12	0.53	0.69	0.72	0.24	0.13	0.17	0.74	0.60	0.37	0.20	1.03	0.69	163	155
LONDON.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BRIGHTON.	21.8	19.7	0.26	0.22	0.55	0.72	0.61	0.17	0.17	0.22	0.80	0.61	0.31	0.17	0.81	0.66	154	148
PORTSMOUTH.	19.9	17.1	0.02	0.01	0.34	0.30	0.40	0.03	0.06	0.16	0.54	0.39	0.21	0.16	0.80	0.31	152	131
PORTSMOUTH.	19.7	17.7	0.00	0.00	0.52	0.05	0.54	0.04	0.34	0.09	0.36	0.36	0.66	0.69	0.87	0.89	135	131
NORWICH.	21.8	20.3	0.01	0.00	0.34	0.00	0.34	0.00	0.07	0.09	0.51	0.45	0.31	1.01	1.18	0.45	178	136
PLYMOUTH.	22.2	22.3	0.01	0.00	0.91	0.29	0.16	0.16	0.19	0.13	0.64	1.04	0.37	0.26	0.73	0.47	158	156
BRISTOL.	21.3	19.7	0.05	0.05	0.39	0.74	0.73	0.11	0.06	0.11	0.55	0.72	0.34	0.10	0.68	0.48	147	132
WOLVERHAMPTON.	23.0	20.2	0.02	0.00	0.37	0.01	0.75	0.57	0.06	0.11	0.56	0.49	0.25	0.11	1.17	0.65	161	140
BIRMINGHAM.	22.5	19.3	0.10	0.03	0.40	0.28	0.77	0.07	0.15	0.11	0.81	0.60	0.28	0.17	1.43	0.78	167	157
LEICESTER.	22.8	19.8	0.00	0.00	0.45	0.33	0.77	0.85	0.09	0.11	0.52	0.38	0.23	0.29	2.03	1.40	205	193
NOTTINGHAM.	22.5	19.9	0.03	0.01	0.51	0.55	0.85	0.14	0.43	0.54	0.54	0.38	0.22	1.14	0.75	179	157	157
DERBY.	18.4	18.1	0.02	0.00	0.34	0.29	0.37	0.11	0.02	0.01	0.32	0.46	0.37	0.12	0.58	0.51	142	137
BIRMINGHAM.	19.9	19.5	0.04	0.02	0.45	0.82	0.25	0.32	0.04	0.14	0.49	0.70	0.38	0.15	0.68	0.31	144	137
LIVERPOOL.	27.0	23.8	0.17	0.08	0.84	1.24	0.83	0.33	0.10	0.23	0.87	0.69	0.69	0.32	1.29	0.72	188	174
BOLTON.	22.9	20.8	0.06	0.01	0.87	0.33	0.13	0.07	0.06	0.06	0.66	0.55	0.30	0.13	1.60	0.74	180	160
MANCHESTER.	28.0	26.5	0.08	0.10	0.61	1.12	0.79	0.19	0.09	0.06	0.84	0.70	0.37	0.21	1.23	0.60	174	175
SALFORD.	25.8	21.1	0.32	0.00	0.73	0.88	0.97	0.30	0.11	0.08	0.85	0.63	0.53	0.32	1.59	1.21	178	174
OLDHAM.	24.8	22.0	0.05	0.00	0.55	0.42	0.89	0.16	0.10	0.12	0.55	0.80	0.38	0.17	0.83	0.30	170	166
BLACKBURN.	24.6	21.8	0.00	0.00	0.91	0.01	0.44	0.17	0.01	0.01	0.28	1.27	0.68	0.29	1.44	0.84	185	170
PRESTON.	26.8	27.1	0.01	0.01	0.64	0.07	0.57	0.69	0.10	0.16	0.48	0.96	0.55	0.36	2.64	1.95	213	218
HUDDESFIELD.	21.1	20.1	0.00	0.00	0.51	0.64	0.14	0.13	0.05	0.03	0.61	0.28	0.18	0.11	0.58	0.23	173	157
HALIFAX.	21.3	19.7	0.00	0.01	0.31	0.00	0.28	0.39	0.05	0.10	0.27	0.17	0.36	0.19	0.45	0.26	164	132
BRADFORD.	22.6	17.7	0.01	0.01	0.40	0.16	0.86	0.22	0.08	0.08	0.54	0.55	0.32	0.18	0.90	0.40	169	143
LEEDS.	23.8	19.9	0.02	0.01	0.42	0.06	0.90	0.63	0.03	0.07	0.63	0.48	0.43	0.22	1.43	0.75	176	155
SHEFFIELD.	23.5	20.7	0.01	0.03	0.36	0.68	1.20	0.32	0.07	0.04	0.67	0.54	0.24	1.29	0.67	164	164	164
HULL.	23.2	17.2	0.03	0.02	0.05	0.88	0.09	0.22	0.08	0.04	0.61	0.18	0.47	0.23	1.62	0.42	168	128
SUNDERLAND.	23.8	23.8	0.11	0.14	0.40	3.05	1.29	0.85	0.11	0.10	0.71	0.26	0.45	0.26	1.14	0.63	158	168
NEWCASTLE.	23.8	26.1	0.10	0.02	0.34	2.25	0.86	0.50	0.08	0.16	0.55	0.34	0.46	0.48	1.07	0.68	163	172
CARDIFF.	21.5	25.7	0.03	0.02	0.51	1.98	0.88	0.26	0.29	0.40	1.16	0.45	0.33	0.38	1.04	0.78	163	189

\*As the rates for years prior to 1882 are not available for these towns, the mean rate for the 8 years 1882-84 has been inserted in the column for mean rates in the 10 years 1875-84.



TABLE 5.—50 other large Town Districts: Population; Births and Deaths in 1885.

DISTRICT NUMBERS.	TOWNS.	POPULATION ESTIMATED to the middle of 1885.*	YEAR ENDING 31st December 1885.						DISTRICTS and SUB-DISTRICTS, taken as approximately representing the several Towns.
			BIRTHS.	DEATHS.	ANNUAL RATE per 1000 living.			Deaths under 1 Year to 1000 Births registered.	
					Births.	Deaths.	Dis. in Coll. 8-14 Feb. 1.		
	FIFTY TOWNS -	2,779,336	93,987	54,559	33·8	19·6	2·35	150	{ Aggregate of under-mentioned Districts and Sub-districts.
	II.—SOUTH EASTERN COS.								
46	Rochester and Chatham P.	62,735	2288	1180	36·5	18·8	1·40	128	Entire District of Medway.
50	Maidstone - - - M†	31,212	963	507	30·9	16·2	1·15	133	West and East Sub-districts.
64	Dover - - - M	37,498	1135	640	30·3	17·1	1·44	108	Entire District. [Sub-districts.
68	Hastings - - - M†	52,306	1198	793	22·9	15·2	1·11	103	All Saints and St. Mary-in-the-Castle
97	Southampton - - M†	55,237	1659	1055	30·0	19·1	2·32	158	Entire District.
119	Reading - - - M†	48,697	1567	864	32·2	17·7	2·67	135	Entire District.
	III.—SOUTH MIDLAND COS.								
150	Oxford - - - M	50,298	1461	962	29·0	19·1	1·35	138	{ Entire District, and St. Clement Sub-district of Headington.
160	Northampton - - M†	66,620	2270	1264	34·1	19·0	2·90	143	St. Giles & All Saints Sub-districts.
179	Cambridge - - - M	37,880	1023	622	27·0	16·4	1·16	131	Entire District.
	IV.—EASTERN COUNTIES.								
196	Colchester - - - M	29,284	967	562	33·0	19·2	1·81	123	Entire District.
213	Ipswich - - - M	53,883	1698	1037	31·5	19·2	1·63	134	Entire District.
219	Yarmouth - - - M†	50,555	1632	901	32·3	17·8	1·98	137	{ Entire District and Gorleston Sub-district of Mutford.
	V.—SOUTH WESTERN COS.								
272	Exeter - - - M†	38,245	1055	762	27·6	19·9	1·36	153	Entire District.
279	Devonport - - - M	48,939	1560	1043	31·9	21·3	3·15	139	Entire District of Stoke Damerel.
317	Bath - - - M†	53,983	1271	1065	23·5	19·7	0·93	155	{ Bathwick, Lyncombe, and Walcot Sub-districts.
	VI.—WEST MIDLAND COS.								
327	Gloucester - - - M†	39,363	1215	698	30·9	17·7	1·45	147	{ St. Nicholas, St. John the Baptist, & South Hamlet Sub-districts.
335	Cheltenham - - - M†	44,874	1090	836	24·3	18·6	1·34	139	Cheltenham Sub-district.
351	Shrewsbury - - - M	31,951	845	694	26·4	21·7	2·16	154	St. Mary & St. Chad Sub-districts of Ateham.
363	Stoke-upon-Trent - P	170,803	6703	3948	39·2	23·1	3·73	184	{ Entire Dis. of Stoke-on-Trent & Tunstall and Burslem Sub-dis. of Wolstanton.
367	Burton-upon-Trent - M†	47,716	1662	657	34·8	13·8	2·07	111	Burton-upon-Trent Sub-district.
372	Walsall - - - M†	62,611	2421	1161	38·7	18·5	2·33	146	Bloxwich & Walsall Sub-districts.
373	West Bromwich - Impt. D†	60,284	2251	1202	37·3	19·9	2·70	176	South-west and North-east Sub-districts.
374	Dudley - - - M†	47,339	1799	1029	39·7	21·7	2·34	166	Dudley Sub-district.
379	Worcester - - - M	32,294	1092	734	33·8	22·7	2·11	168	Entire District.
392	Coventry - - - M	47,427	1627	825	34·3	17·4	0·91	124	Entire District.
	VII.—NORTH MIDLAND COS.								
420	Lincoln - - - M†	48,732	1556	840	31·9	17·2	1·46	158	Home Sub-district.
	VIII.—NORTH WESTERN COS.								
443	Stockport - - - M†	77,440	2464	1907	31·8	24·6	3·63	212	{ Heaton Norris, and Stockport 1st and 2d Sub-districts.
444	Macclesfield - - - M†	36,737	1048	730	28·5	19·9	0·95	149	{ East and West Macclesfield and Sutton Sub-districts.
450	Chester - - - M†	49,550	1467	997	29·6	20·1	3·85	155	Castle and Cathedral Sub-districts.
456	St. Helens - - - M†	62,657	2462	1430	39·3	22·8	3·51	172	St. Helens Sub-district of Prescott.
457	Southport - - - M	40,293	940	682	23·3	16·9	1·12	146	North Meols Sub-dist. of Ormskirk.
458	Wigan - - - M†	52,667	2056	1237	39·0	23·5	5·68	154	Wigan Sub-district.
459	Warrington - - - M†	46,821	1823	834	38·9	17·8	1·13	135	Warrington Sub-district.
462	Bury - - - M†	58,222	1865	1151	32·0	19·8	2·03	139	{ South and North Bury, and Elton Sub-districts.
468	Ashton-under-Lyne - M†	38,736	1272	871	32·8	22·5	2·22	171	Ashton Town Sub-district.
470	Rochdale - - - M†	80,734	2190	1451	27·1	18·0	0·97	123	{ Castleton Further and Nearer, Spotland Nearer, Wardleworth, & Wuerdles Sub-districts.
471	Accrington - - - M†	36,734	1146	611	31·2	16·6	1·80	138	Accrington Sub-district of Haslingden.
482	Barrow-in-Furness - M	57,127	1764	791	30·9	13·8	2·50	135	Entire District.
	IX.—YORKSHIRE.								
510	Rotherham - - - M†	56,986	1990	1004	34·9	17·6	2·60	156	{ Rotherham and Kimberworth Sub-districts.
516	York - - - M†	73,829	2217	1311	30·0	17·8	1·52	142	{ Bootham, Micklegate, and Walmgate Sub-districts.
534	Middlesbrough - - M†	65,302	2330	1372	38·7	21·0	3·52	162	Middlesbrough Sub-district.
	X.—NORTHERN COUNTIES.								
542	Darlington - - - M†	43,264	1388	692	32·1	16·0	1·36	135	Darlington Sub-district.
554	South Shields - - M	118,226	4702	2620	39·8	22·2	3·59	149	Entire District.
555	Gateshead - - - M†	74,131	2894	1490	39·0	20·1	2·54	154	Gateshead Sub-district.
557	Tynemouth - - - M†	49,093	1669	985	34·0	20·1	3·01	131	North Shields & Tynemouth Sub-districts.
572	Carlisle - - - M†	42,189	1378	820	32·7	19·4	1·78	165	St. Cuthbert & St. Mary Sub-districts.
	XI.—MONMOUTHSH. & WALES.								
585	Newport (Monmouth) M†	35,818	1447	816	40·4	22·8	3·15	162	Newport Sub-district.
587	Ystradyfodwg - L. G. D.†	50,157	2421	1105	48·3	22·0	3·17	154	Ystradyfodwg Sub-dist. of Pontypridd.
588	Merthyr Tydfil - - P	89,849	3310	2184	36·8	24·3	3·14	155	{ Lower and Upper Merthyr Tydfil, and Aberdare Sub-districts.
592	Swansea - - - M	92,008	3456	1587	37·6	17·2	1·75	130	{ Llangafelach, Swansea, and Llan-samlet Sub-districts.

NOTE.—The letter M or P affixed to the name of each Town denotes whether the limits, which the District or Sub-districts named in the last column approximately represent, are Municipal or Parliamentary. Impt. D. signifies an Improvement District, and L. G. D. a Local Government District.

\* These estimates, excepting those for Barrow-in-Furness and Ystradyfodwg, are based upon the numbers enumerated at the Census in 1881, and raised to the middle of 1885 by the addition of 44 times the annual rate of increase that prevailed between 1871 and 1881. The populations of Barrow-in-Furness and Ystradyfodwg have been estimated from special returns of inhabited houses furnished by the local authorities.

† The rates of mortality for these towns have been corrected by the exclusion of a proportional number of deaths occurring in County Hospitals and Lunatic Asylums, situate within the District or Sub-districts here taken as representing the towns, or by the exclusion or addition of a proportion of the deaths in Union Workhouses in cases where only a portion of the Union is embraced by the area taken, or where the Workhouse is situated outside that area.

TABLE 6.—Births and Deaths in 1885 in **Edinburgh, Glasgow, Dublin, and in 29 Foreign Cities.**

CITIES.	POPULATION (enumerated or estimated).	BIRTHS.  (Excluding Stillborn.)	DEATHS.	ANNUAL RATE per 1000 Persons living.		DEATHS FROM EPIDEMIC DISEASES.							
				Births.	Deaths.	Small-pox.	Measles.	Scarlet Fever.	Diphthe- ria.	Whoop- ing-cough.	Typhus & Typhoid Fever.	Diarrhoeal Diseases.	
EDINBURGH - -	250,616	7337	4532	29·4	18·2	-	19	29	44	128	86	131	
GLASGOW - - -	519,965	19791	13382	38·2	25·8	6	444	293	113	537	130	457	
DUBLIN - - - -	353,082	10144	10022	28·8	28·5	2	296	178	27	191	198	190	
CALCUTTA - - -	433,219	-	12515	-	28·9	156	91	-	12	55	8	1604	
BOMBAY - - - -	773,196	-	21789	-	28·2	71	411	-	-	-	9	1562	
MADRAS - - - -	398,777	16192	14896	40·6	37·4	24	64	-	-	-	-	2804	
PARIS - - - - -	2,239,928	60987	52728	27·2	23·5	175	1498	194	1647*	264	1302	3957	
GENEVA - - - -	71,453	1441	1477	20·2	20·7	5	4	-	19*	4	26	63	
BRUSSELS - - -	436,214	13195	9424	30·2	21·6	13	85	90	106	59	83	1116	
AMSTERDAM - -	366,812	13667	8657	37·3	23·6	-	178	206	116	196	39	?	
ROTTERDAM - -	166,001	6339	3983	38·2	24·0	2	13	93	6	48	12	37	
THE HAGUE - -	134,552	5056	3037	37·6	22·6	-	2	5	25	59	20	23	
COPENHAGEN - -	280,615	10763	5726	38·4	20·4	3	112	56	99	72	23	307	
STOCKHOLM - -	200,143	6774	4919	33·8	24·6	-	286	138	240*	92	33	521	
CHRISTIANIA - -	128,000	3887	2703	30·4	21·1	2	-	167	434*	52	11	202	
ST. PETERSBURG	928,016	-	27305	-	29·4	98	459	491	410	161	734	4346	
BERLIN - - - -	1,279,599	43052	31420	33·6	24·6	5	404	407	1817	350	215	4394	
HAMBURG (State)	497,956	17867	12968	35·9	26·0	4	69	243	539*	153	210	1295	
DRESDEN - - - -	241,500	8008	5792	33·2	24·0	2	82	97	340*	21	34	492	
BRESLAU - - - -	295,000	10516	8845	35·7	30·0	-	5	25	168	96	65	1042	
MUNICH - - - -	244,000	8813	7494	36·1	30·7	14	134	61	177*	35	46	1182	
VIENNA - - - -	769,889	26846	21446	34·9	27·9	863	293	81	237	170	98	1583	
PRAGUE - - - -	272,333	-	8712	-	32·0	156	35	253	137*	82	84	320	
BUDA-PESTH - -	429,532	15369	12646	35·8	29·4	181	180	39	120	50	112	1036	
TRIESTE - - - -	150,157	-	4549	-	30·3	241	2	15	308*	29	67	281	
ROME - - - - -	330,430	9885	8600	29·9	26·0	230	180	15	103	27	152	?	
TURIN - - - - -	267,763	7957	6820	29·7	25·5	135	43	60	122	103	181	?	
VENICE - - - - -	145,990	3821	4346	26·2	29·8	327	32	1	34*	13	99	495	
NEW YORK - - -	1,356,958	-	35594	-	26·2	26	731	548	1324	490	?	3383	
BROOKLYN - - -	665,602	-	15409	-	23·2	-	175	362	515	158	153	1857	
PHILADELPHIA -	949,432	-	20923	-	22·0	3	128	361	575	127	594	1105	
BALTIMORE - - -	408,520	-	8169	-	19·8	-	11	69	244	65	154	597	

\* Including deaths from croup.

TABLE 7.—GREATER LONDON (THE METROPOLITAN AND CITY POLICE DISTRICTS).—Population; Births and Deaths in the 52 Weeks ending 2nd January 1886.

—	POPULATION, estimated to the middle of 1885.	ANNUAL RATE per 1000 living.			TOTAL BIRTHS.	TOTAL DEATHS.	The DEATHS registered in the 52 Weeks include										
		Births.	Deaths.	Principal Zymotic Diseases.			Deaths of		Deaths from								Deaths in Public Institutions.
							Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhoea.		
GREATER } LONDON }	5,199,166	32·9	19·2	2·78	170,524	99,489	24,433	23,047	1679	3447	832	1220	2953	916	3343	19454	
INNER LONDON	4,083,928	32·6	19·7	2·77	132,506	80,000	19,594	18,278	899	2928	707	896	2479	695	2657	17048	
OUTER RING -	1,115,238*	34·2	17·5†	2·82	38,018	19,489	4839	4769	780	519	125	324	474	221	686	2406	

\* The Population of the Outer Ring is estimated by deducting the estimated Population of Inner London from that of Greater London calculated in accordance with the rates of increase which prevailed between 1871 and 1881.

† The Death-rate in the Outer Ring, corrected for the deaths in the three Middlesex County Lunatic Asylums (see Table 9), was equal to 17·1 per 1000.



TABLE 8.—GREATER LONDON.—Area, Population, Inhabited Houses, Rateable Value, 1881.

	AREA (including Tidal Water).		Enumerated POPULATION, 1881.	DENSITY OF POPULA- TION in 1881.		INHABITED HOUSES, 1881.	RATEABLE VALUE, 1881.*
	In Acres.	In Square Miles.		Persons to an Acre.	Persons to a Square Mile.		
GREATER LONDON -	448,334	701	4,766,661	10·6	6,800	645,695	£ 32,854,916
INNER LONDON -	78,052	122	3,816,483	48·9	31,283	486,186	27,402,509
OUTER RING -	370,282	579	950,178	2·6	1,641	159,509	5,452,407

\* The Rateable Value of London in 1881 was furnished by the Metropolitan Police Office.

TABLE 9.—LONDON—OUTER RING. Population; Births; Deaths from All Causes and from the Principal Zymotic Diseases; and the Annual Rate of Mortality, in the 52 Weeks ending 2nd January 1886.

DISTRICTS AND SUB-DISTRICTS.	POPULA- TION estimated to the middle of 1885.	BIRTHS.	DEATHS.	DEATHS from Principal Zymotic Diseases.	ANNUAL RATE PER 1000 LIVING.		
					Births.	Deaths.	Principal Zymotic Diseases.
LONDON—OUTER RING -	1,115,238	38,018	19,489	3129	34·2	17·1	2·82
EPSOM (part of) - - - -	35,991	905	679	35	25·2	12·6	0·98
CROYDON and part of GODSTONE	136,843	4014	2167	303	29·4	15·9	2·22
KINGSTON (part of) - - - -	84,446	2593	1277	121	30·8	15·2	1·44
RICHMOND - - - - -	36,645	1106	571	55	30·3	15·6	1·51
BROMLEY (part of) - - - -	54,707	1681	751	69	30·8	13·8	1·27
BEXLEY - - - - -	25,828	806	377	32	31·3	14·6	1·24
STAINES - - - - -	24,942	739	429	69	29·7	17·4	2·78
UXBRIDGE - - - - -	27,852	898	596	40	32·4	17·5	1·44
BRENTFORD - - - - -	115,347	3607	1864	231	31·4	16·3	2·01
HENDON and BUSHEY - - - -	69,018	2600	1207	157	37·8	17·7	2·28
BARNET and part of HATFIELD -	38,544	1187	703	46	30·9	13·6	1·20
EDMONTON - - - - -	168,179	6379	3033	491	38·1	18·3	2·93
WEST HAM and part of CHIGWELL	274,613	10604	5515	1425	38·7	20·2	5·21
ROMFORD (part of) - - - -	22,283	899	320	55	40·5	14·4	2·43

Note.—The estimates of the population in the middle of 1885 are based upon the numbers enumerated in 1871 and 1881. In calculating the rates of mortality for the above Table, a proportion of the deaths recorded in the three Middlesex County Lunatic Asylums, situated in the Districts of Epsom, Uxbridge, and Barnet, has been excluded as belonging to Registration (or Inner) London, and the remainder distributed among the Middlesex Districts in the Outer Ring.

TABLE 10.—LONDON. Of the 3,816,483 Inhabitants enumerated in 1881, the Numbers of each Sex born in LONDON, and elsewhere.

	MALES.		FEMALES.		EXCESS OF FEMALES.	
	1871.	1881.	1871.	1881.	1871.	1881.
TOTAL INHABITANTS - - -	1,523,151	1,797,486	1,731,109	2,018,997	207,958	221,511
BORN IN LONDON - - -	975,461	1,147,063	1,080,115	1,254,892	104,654	107,829
BORN OUT OF LONDON - - -	547,690	650,423	650,994	764,105	103,304	113,682

Note.—The enumerated Population of London in 1881 included 2,401,955 of both sexes born in London and 1,414,528 born elsewhere.

TABLE 11.—London: Population at different Ages, as enumerated at the Censuses of 1851, 1861, 1871, and 1881, with the Numbers of Males and Females at the various Ages in 1881.

—	ALL AGES.	0—	5—	10—	15—	20—	25—	35—	45—	55—	65—	75—	85 & upwards.
1851	2,362,236	293,532	243,648	216,369	213,694	211,401	428,123	308,940	208,363	122,946	62,608	19,845	2,728
1861	2,803,989	392,296	300,259	234,949	259,155	277,389	476,802	366,417	246,918	149,503	74,039	23,721	3,141
1871	3,254,260	422,929	319,683	309,658	307,075	321,535	551,973	404,954	290,977	174,265	90,193	27,604	3,656
1881	3,816,483	497,044	419,740	366,111	368,628	385,236	641,265	471,131	320,530	205,921	103,815	32,982	4,080
Males	1,797,486	248,619	208,193	179,483	171,659	176,186	297,085	222,417	147,616	90,992	42,139	11,877	1,220
Females	2,018,997	248,425	211,547	186,628	196,969	209,050	344,180	248,714	172,914	114,929	61,676	21,105	2,860

NOTE.—In England the proportion of Females to Males in the population in 1881 was as 105 to 100; in London it was as 112 to 100. These proportions exactly corresponded with those that prevailed in 1871.

TABLE 12.—London: Marriages, Births, and Deaths, 1871-1885.

YEARS.		1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885 (52 weeks).
MARRIAGES - -		31,843	33,155	23,425	33,218	34,072	34,007	31,593	33,742	33,477	34,144	34,378	35,612	35,379	35,381	34,573
BIRTHS -	Persons	112,617	118,440	119,015	121,950	123,266	127,444	128,092	129,765	131,542	133,310	132,904	133,309	134,563	135,651	132,506
	Males -	57,082	60,463	60,513	62,072	62,782	65,058	65,477	66,241	66,445	67,985	67,556	67,953	68,440	69,103	67,848
	Females	55,535	57,977	58,502	59,878	60,484	62,386	62,615	63,521	65,097	65,325	65,348	65,351	66,054	66,545	64,658
DEATHS -	Persons	80,430	71,355	75,450	76,813	81,964	77,671	77,440	84,188	88,805	81,832	81,346	82,913	80,995	81,951	80,000
	Males -	40,634	36,592	38,366	39,212	42,056	40,071	39,997	43,031	42,826	41,978	41,706	42,092	41,646	42,274	40,704
	Females	39,796	34,763	37,093	37,601	39,908	37,600	37,452	41,157	40,979	39,854	39,640	40,321	39,349	39,677	39,236
EXCESS OF BIRTHS OVER DEATHS -		32,187	47,085	43,566	45,137	41,302	49,773	50,643	45,777	47,737	51,478	51,558	50,396	53,508	53,700	52,506
ANNUAL RATES PER 1000.	Persons Married	19.5	19.9	19.8	19.4	19.6	19.2	18.7	18.5	18.6	18.1	18.1	18.3	17.9	17.6	16.9
	Births -	34.5	35.6	35.3	35.6	35.4	35.9	35.6	35.5	35.5	35.3	34.7	34.2	34.0	33.7	32.6
	Deaths	24.6	21.4	22.4	22.4	23.5	21.9	21.5	23.1	22.6	21.7	21.2	21.3	20.5	20.4	19.7

NOTE.—The figures in the above table, except those for 1885, relate to the calendar year ending 31st December. The figures for 1885 relate to the 52 weeks ending 2nd January 1886.



TABLE 13.—London Annual Rate of Mortality, in the 46 Years 1840–1885, in Five Groups of Metropolitan Districts.

	LONDON.	WEST DISTRICTS.	NORTH DISTRICTS.	CENTRAL DISTRICTS.	EAST DISTRICTS.	SOUTH DISTRICTS.
Area in Square Miles . . . . .	122.0	16.8	21.0	3.5	9.3	71.4
Decennial Increase of Po- } pulation per Cent., 1871–81 }	17.3	19.3	20.5	{ –15.6 (decrease). }	8.4	30.8
Enumerated Population, } 1881 }	3,816,483	660,633	905,947	282,238	692,738	1,263,927
Density: Persons { to an Acre . . . . . { 1841 1871 1881	25 42 49	27 52 62	28 56 67	172 150 127	66 107 116	11 21 28
MEAN RATE OF MORTALITY PER 1000 IN 46 YEARS.						
YEARS. 1840–1885 . . . . .	23.5	22.0	22.3	25.0	25.6	23.5
MEANS OF 10 YEARS.						
1841–50 . . . . .	24.8	23.0	22.7	24.7	26.2	26.2
1851–60 . . . . .	23.7	22.6	22.2	24.4	25.1	24.4
1861–70 . . . . .	24.4	22.7	23.6	26.7	26.9	23.4
1871–80 . . . . .	22.5	20.8	21.9	24.8	24.9	21.8
ANNUAL RATE OF MORTALITY PER 1000.						
1840 . . . . .	25.0	24.1	23.9	24.5	25.7	25.9
1841 . . . . .	24.1	22.4	22.4	25.0	25.1	24.4
1842 . . . . .	23.6	22.6	22.6	23.6	24.4	23.9
1843 . . . . .	24.8	23.3	23.1	25.3	26.4	24.8
1844 . . . . .	25.1	23.9	23.3	24.4	25.9	25.6
1845 . . . . .	23.3	22.5	21.0	24.0	24.6	23.8
1846 . . . . .	23.4	21.6	21.9	22.9	24.1	24.6
1847 . . . . .	26.8	24.5	25.4	27.9	29.4	27.7
1848 . . . . .	25.7	23.6	23.4	25.3	28.7	27.2
1849 . . . . .	30.1	26.1	23.7	27.9	31.8	37.6
1850 . . . . .	21.0	19.6	19.8	21.1	21.7	21.9
1851 . . . . .	23.4	22.0	22.2	24.1	24.3	24.0
1852 . . . . .	22.5	21.5	21.2	23.9	23.3	23.0
1853 . . . . .	24.4	22.3	22.4	25.1	26.5	25.3
1854 . . . . .	29.4	28.5	24.4	27.4	30.0	34.8
1855 . . . . .	24.3	23.0	23.3	25.1	25.5	24.6
1856 . . . . .	22.0	21.5	21.1	23.0	23.3	21.8
1857 . . . . .	22.4	21.2	21.5	23.8	24.6	21.5
1858 . . . . .	23.9	22.4	22.9	24.5	25.8	24.0
1859 . . . . .	22.7	21.4	21.7	24.1	24.0	22.6
1860 . . . . .	22.4	22.2	21.2	23.3	24.1	22.1
1861 . . . . .	23.2	22.1	22.3	25.4	24.0	22.8
1862 . . . . .	23.6	22.0	22.0	26.3	26.0	22.7
1863 . . . . .	24.5	23.0	23.8	27.1	26.5	23.3
1864 . . . . .	26.4	24.6	25.4	30.0	29.0	25.4
1865 . . . . .	24.5	22.7	24.5	27.5	26.4	23.2
1866 . . . . .	26.5	22.6	25.3	27.5	34.0	24.1
1867 . . . . .	23.0	21.8	23.1	25.1	24.2	22.0
1868 . . . . .	23.5	22.3	22.9	25.6	25.6	22.9
1869 . . . . .	24.6	22.2	23.5	26.8	28.0	23.9
1870 . . . . .	24.1	23.8	23.6	26.1	25.1	23.5
1871 . . . . .	24.6	22.5	25.6	25.0	26.1	24.0
1872 . . . . .	21.4	19.6	21.1	23.6	23.6	20.6
1873 . . . . .	22.4	20.5	21.1	25.1	25.2	21.7
1874 . . . . .	22.4	20.9	21.7	25.6	25.5	21.0
1875 . . . . .	23.5	22.2	22.1	26.2	25.7	23.3
1876 . . . . .	21.9	20.9	21.1	24.1	23.9	21.2
1877 . . . . .	21.5	19.2	21.5	24.2	24.5	20.5
1878 . . . . .	23.1	21.6	22.0	25.1	25.0	23.0
1879 . . . . .	23.6	20.9	21.5	26.0	25.5	21.8
1880 . . . . .	21.7	19.8	20.8	23.4	24.3	21.3
1881 . . . . .	21.2	19.6	20.6	23.2	24.2	20.5
1882 . . . . .	21.3	19.8	19.6	23.8	25.2	20.6
1883 . . . . .	20.5	19.5	19.1	23.3	24.1	19.5
1884 . . . . .	20.4	19.3	19.1	24.0	23.0	19.8
1885 . . . . .	19.6	19.2	18.5	23.0	22.5	18.5
Average Number living } to One Annual Death } in 46 years . . . . .	43	45	45	40	39	43

NOTE.—The populations upon which these rates of mortality have been calculated are deduced from the numbers enumerated at the five Censuses of 1841, 1851, 1861, 1871, and 1881. The deaths used for the 45 years 1840–84 are for the calendar years, while those for 1885 are the numbers registered in the 52 weeks ending 2nd January 1886. Hampstead and Lewisham did not form part of Registration London prior to 1847. Wandsworth was not included in Registration London until the commencement of 1844, but the facts for that district have been included, in calculating the rates in the above Table, for the years 1840–43. Certain changes affecting the West and Central groups of districts were made in the year 1868, but no corrections for these changes have been made in this Table for any year prior to 1861.

TABLE 14.—LONDON. Population, Zymotic and

PERIODS AND YEARS.	Population estimated to the middle of each Period or Year.	DEATHS FROM PRINCIPAL ZYMOTIC DISEASES.									
		Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric Fever.	Simple and Ill-defined Fever.	Diarrhoea and Dysentery.	Cholera.
Cols. - 1	2	3	4	5	6	7	8	9	10	11	12
Periods.											
1838-40 (3 Years.)	1,803,004	5,686	3,756	5,977		4,313	7,159			1,475	111
1841-50	2,103,487	8,416	13,011	18,314		18,079	20,890			16,926	15,588
1851-60	2,570,489	7,150	13,766	26,317		22,497	22,597			26,362	12,886
1861-70	3,018,193	8,347	17,338	34,391	5,323	26,550	27,149			31,578	7,403
1871-80	3,513,843	15,539	17,947	21,247	4,319	28,728	1,887	8,536	2,579	33,168	1,328
1838	1,766,169	3817	588	1524		2083	4078			498	15
1839	1,802,751	634	2036	2499		1161	1819			455	36
1840	1,840,091	1235	1132	1954		1069	1262			522	60
1841	1,878,205	1053	973	663		2278	1151			543	28
1842	1,917,108	360	1293	1224		1603	1184			855	118
1843	1,954,041	438	1442	1867		1908	2094			1005	85
1844	2,033,816	1804	1182	3029		1292	1721			831	65
1845	2,073,298	909	2318	1085		1816	1324			940	43
1846	2,113,535	257	747	928		2035	1838			2305	228
1847	2,202,673	955	1778	1433		1600	3297			2283	117
1848	2,244,837	1620	1144	4767		1630	3685			2247	652
1849	2,287,302	521	1154	2149		2349	2564			3837	14,125
1850	2,330,054	499	980	1169		1568	2032			2077	127
1851	2,373,081	1062	1297	1285		2185	2374			2755	213
1852	2,416,367	1159	595	2571		1569	2183			2513	162
1853	2,459,899	211	978	2016		2667	2617			2649	883
1854	2,503,662	694	1409	3477		2502	2816			3325	10,738
1855	2,547,639	1039	878	2611		2438	2460			2190	149
1856	2,591,815	531	1479	1819		2092	2717			2414	152
1857	2,636,174	156	1341	1599		2527	2195			3298	214
1858	2,680,700	242	2569	4184		2708	1919			2220	131
1859	2,725,374	1158	1330	3481	773	1742	1840			3513	193
1860	2,770,181	898	2090	2017	484	2067	1476			1485	51
1861	2,815,101	217	1062	2381	674	3548	1848			2740	168
1862	2,860,117	366	2334	3492	730	2168	3673			1830	106
1863	2,905,210	1996	1634	4955	799	2175	2871			2492	159
1864	2,950,361	547	2788	3244	611	2423	3782			3013	156
1865	2,995,551	640	1290	2179	431	2935	3217			3721	196
1866	3,040,761	1391	2220	1892	462	2960	2688			3294	5596
1867	3,085,971	1345	1143	1451	447	2278	2184			3060	240
1868	3,131,160	597	1962	2916	495	2338	2468			4110	324
1869	3,176,308	275	1456	5841	340	3769	716	1069	615	3495	219
1870	3,221,394	973	1449	6040	334	1956	472	976	570	3814	239
1871	3,267,251	7912	1427	1902	344	2291	384	871	436	3908	221
1872	3,319,736	1786	1080	918	267	3259	174	807	322	3588	181
1873	3,373,065	113	2149	645	320	2620	277	908	325	3950	102
1874	3,427,250	57	1680	2648	419	1867	312	879	337	3201	123
1875	3,482,306	46	1408	3677	581	3204	128	817	272	3289	108
1876	3,538,246	736	1720	2308	387	2737	159	769	202	3585	135
1877	3,595,085	2551	2587	1580	316	1817	157	901	194	2421	88
1878	3,652,837	1417	1500	1808	566	4483	151	1033	197	3534	124
1879	3,711,517	450	2475	2661	575	2934	71	849	160	1894	53
1880	3,771,139	471	1521	3100	548	3516	74	702	134	3738	133
1881	3,831,719	2367	2536	2114	657	1973	92	971	134	3055	95
1882	3,893,272	430	2338	2006	837	4682	53	975	95	2144	79
1883	3,955,814	136	2441	2006	952	1568	55	963	102	2652	83
1884	4,019,361	898	2271	1430	951	3156	32	925	78	3903	103
1885	4,083,928	899	2928	707	896	2479	28	585	82	2657	79

NOTE.—Wandsworth was not included in Registration London until 1844, nor Lewisham and throughout, but the population in each year refers to the same  
For the years 1838-50 the numbers of deaths from the various diseases are derived from summaries of to calendar years. The

In calculating the proportions of births and deaths to population, a correction



## Infant Mortality in 48 Years 1838-85.

ANNUAL MORTALITY, TO 1,000 PERSONS LIVING, FROM PRINCIPAL ZYMOTIC DISEASES.											Annual Mortality of Infants under One Year of Age to 1000 Births.	PERIODS AND YEARS.
Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric Fever.	Ill- simple and defined Fever.	Diarrhoea Dysentery.	Cholera.			
13	14	15	16	17	18	19	20	21	22	23	24	
1'05	0'69	1'11		0'80	1'32			0'27	0'02	—	Periods.	
0'40	0'62	0'86		0'87	0'98			0'80	0'68	157	1838-40 (3 years.)	
0'28	0'53	1'01		0'88	0'89			1'03	0'52	155	1841-50	
0'28	0'58	1'13	0'13	0'88	0'91			1'05	0'24	162	1851-60	
0'46	0'51	0'60	0'12	0'82	0'05	0'24	0'07	0'94	0'04	158	1861-70	
											1871-80	
2'16	0'33	0'86		1'18	2'31			0'28	0'01	—	1838	
0'35	1'15	1'39		0'64	1'01			0'25	0'02	—	1839	
0'67	0'62	1'06		0'58	0'69			0'28	0'03	—	1840	
0'56	0'52	0'35		1'21	0'61			0'29	0'01	160	1841	
0'19	0'67	0'64		0'84	0'62			0'45	0'06	157	1842	
0'22	0'74	0'96		0'98	1'07			0'51	0'04	165	1843	
0'89	0'58	1'49		0'64	0'84			0'41	0'03	152	1844	
0'44	1'12	0'52		0'88	0'64			0'45	0'02	149	1845	
0'12	0'35	0'44		0'96	0'87			1'09	0'11	157	1846	
0'43	0'81	0'65		0'73	1'50			1'04	0'05	166	1847	
0'72	0'51	2'12		0'73	1'64			1'00	0'29	158	1848	
0'23	0'50	0'94		1'03	1'12			1'68	6'18	169	1849	
0'21	0'42	0'50		0'67	0'87			0'89	0'05	140	1850	
0'45	0'55	0'54		0'92	1'00			1'14	0'09	154	1851	
0'48	0'25	1'06		0'65	0'90			1'94	0'07	151	1852	
0'09	0'40	0'82		1'08	1'06			1'08	0'36	158	1853	
0'28	0'56	1'39		1'00	1'12			1'33	4'29	164	1854	
0'41	0'34	1'02		0'96	0'97			0'86	0'06	152	1855	
0'20	0'57	0'70		0'81	1'05			0'93	0'06	150	1856	
0'06	0'51	0'61		0'96	0'83			1'25	0'08	156	1857	
0'09	0'88	1'56		1'01	0'72			0'83	0'05	160	1858	
0'42	0'49	1'28	0'28	0'64	0'68			1'29	0'07	150	1859	
0'32	0'75	0'73	0'17	0'75	0'53			0'54	0'02	153	1860	
0'08	0'38	0'85	0'24	1'26	0'66			0'97	0'06	155	1861	
0'13	0'82	1'22	0'26	0'76	1'28			0'64	0'04	143	1862	
0'69	0'56	1'70	0'28	0'74	0'99			0'86	0'05	151	1863	
0'19	0'95	1'10	0'21	0'82	1'28			1'02	0'05	169	1864	
0'21	0'43	0'73	0'14	0'98	1'07			1'24	0'07	171	1865	
0'46	0'73	0'62	0'15	0'97	0'88			1'08	1'84	172	1866	
0'44	0'37	0'47	0'14	0'74	0'71			0'99	0'08	159	1867	
0'19	0'63	0'93	0'16	0'75	0'79			1'31	0'10	166	1868	
0'09	0'46	1'84	0'11	1'19	0'23	0'34	0'19	1'10	0'07	170	1869	
0'30	0'45	1'87	0'10	0'61	0'15	0'30	0'18	1'18	0'07	164	1870	
2'42	0'44	0'58	0'11	0'70	0'12	0'27	0'13	1'21	0'67	171	1871	
0'54	0'51	0'28	0'08	0'98	0'05	0'24	0'10	1'08	0'05	158	1872	
0'03	0'64	0'19	0'09	0'78	0'08	0'27	0'10	1'17	0'05	160	1873	
0'02	0'49	0'77	0'12	0'54	0'09	0'26	0'10	0'98	0'04	156	1874	
0'01	0'40	1'06	0'17	0'92	0'04	0'23	0'08	0'94	0'03	162	1875	
0'21	0'49	0'65	0'11	0'77	0'04	0'22	0'06	1'01	0'04	157	1876	
0'71	0'66	0'44	0'09	0'51	0'04	0'25	0'05	0'67	0'02	146	1877	
0'39	0'41	0'49	0'15	1'23	0'04	0'28	0'05	0'97	0'03	164	1878	
0'12	0'67	0'72	0'15	0'79	0'02	0'23	0'04	0'51	0'01	148	1879	
0'12	0'40	0'82	0'14	0'93	0'02	0'19	0'04	0'99	0'04	158	1880	
0'62	0'66	0'55	0'17	0'51	0'02	0'25	0'03	0'80	0'02	148	1881	
0'11	0'60	0'52	0'22	1'20	0'01	0'25	0'02	0'55	0'02	151	1882	
0'03	0'62	0'51	0'24	0'40	0'01	0'24	0'03	0'67	0'02	146	1883	
0'22	0'57	0'36	0'24	0'79	0'01	0'23	0'02	0'97	0'04	156	1884	
0'22	0'72	0'17	0'22	0'61	0'01	0'14	0'02	0'66	0'02	148	1885	

Hampstead until 1847; thus the figures in the above Table do relate to the same area as the facts in the various columns relating to Births and Deaths.

52 or 53 weeks; the numbers for the 34 years 1851-84 are derived from the Annual Reports, and relate figures for 1885 are for 52 weeks.

was made for leap years and also for years represented by 52 or 53 weeks.

TABLE 15.—Deaths REGISTERED in London at several groups of Ages and from different Causes during the 52 Weeks ending Saturday 2nd January 1886.

CAUSES OF DEATH.	Annual Average, 1875-84.	TOTAL AT ALL AGES.	Under 5 Years.		5 and under 20.	20 and under 40.	40 and under 60.	60 and under 80.	80 and upwds.
			Under 1 Year.	1-5.					
<b>ALL CAUSES</b>	88,412	80,000	19,594	13,319	4846	10,271	13,692	15,000	3278
Small-pox † { Vaccinated - - - - - Unvaccinated - - - - - No Statement - - - - -	1088 {	218 330 351	4 65 47	2 55 44	35 110 68	135 74 130	32 19 51	9 6 11	1 - -
Measles - - - - -	2236	2298	571	2145	204	6	1	1	-
Scarlet Fever - - - - -	2459	707	43	452	179	26	2	-	-
Typhus - - - - -	105	28	-	2	8	4	14	-	-
Relapsing Fever - - - - -	1†	-	-	-	-	-	-	-	-
Influenza - - - - -	13	3	2	1	-	-	-	-	-
Whooping-cough - - - - -	3290	2479	929	1455	84	-	1	-	-
Diphtheria - - - - -	690	896	60	551	248	20	14	3	-
Simple and Undefined Fever - - - - -	176	82	7	20	23	12	5	14	1
Enteric Fever - - - - -	906	585	4	52	194	244	67	24	-
Simple Cholera - - - - -	115	79	34	11	6	5	13	10	-
Diarrhoea, Dysentery - - - - -	3323	2647	1963	370	19	32	47	169	57
Remittent Fever - - - - -	20†	16	2	7	1	2	1	3	-
Hydrophobia - - - - -	7	27	-	4	14	4	4	1	-
Glanders - - - - -	2	1	-	-	-	1	-	-	-
Cowpox and Vaccination - - - - -	13†	7	7	-	-	-	-	-	-
Veneral Affections - - - - -	59	543	379	32	6	44	57	25	-
Erysipelas - - - - -	339	333	88	11	19	35	86	86	10
Pyæmia, Septicæmia - - - - -	162†	148	26	10	21	44	29	17	1
Puerperal Fever - - - - -	292	323	-	-	18	278	27	-	-
Other Zymotic Diseases - - - - -	97†	104	27	36	10	11	11	7	2
Thrush - - - - -	173	112	108	3	-	-	-	-	1
Worms & other Parasitical Diseases - - - - -	22	17	-	3	2	7	3	2	-
Starvation, Want of Breast-milk - - - - -	107	92	82	-	-	4	4	1	1
Alcoholism, Delirium Tremens - - - - -	230	180	-	-	1	65	89	25	-
Rheumatic Fever, Rheumatism of Heart - - - - -	557 {	416 {	3	11	122	177	71	32	-
Rheumatism - - - - -	129	129	-	1	1	14	49	60	4
Gout - - - - -	172	176	-	-	-	4	52	110	10
Rickets - - - - -	160†	170	47	117	6	-	-	-	-
Cancer - - - - -	2421	2624	1	10	23	280	1250	979	81
Tabes Mesenterica - - - - -	1614	1324	844	372	78	22	6	2	-
Tubercular Meningitis - - - - -	1614	1325	460	676	172	11	6	-	-
Phthisis - - - - -	9373	8372	196	216	704	4024	2768	468	6
Scrofula, Tuberculosis - - - - -	786	890	283	280	176	84	54	13	-
Other Constitutional Diseases - - - - -	479†	517	23	18	40	97	170	149	15
Premature Birth - - - - -	1649	1837	1837	-	-	-	-	-	-
Atelecstasis - - - - -	124†	180	150	-	-	-	-	-	-
Congenital Malformations - - - - -	363	376	340	21	14	1	-	-	-
Old Age - - - - -	2764	2552	-	-	-	-	22	1224	1306
Apoplexy - - - - -	2396	2149	32	28	20	154	655	1091	169
Epilepsy - - - - -	401	346	4	15	49	102	87	77	12
Convulsions - - - - -	2750	2343	1956	385	19	-	-	3	-
Other Diseases of Brain, &c. - - - - -	4572	4313	691	716	307	350	677	1336	236
Diseases of Organs of Special Sense - - - - -	117	112	24	18	33	22	10	5	-
Diseases of Circulatory System - - - - -	5230	5755	48	35	447	907	1824	2214	280

\* These averages have been raised for increase of population between the middle of the period 1875-84, and the middle of 1835, and also to afford comparison with the deaths recorded in the 52 weeks of 1885. For the population at each group of ages, estimated to the middle of 1885, see Table 25.

† These cases of small-pox only are returned as "Vaccinated" or as "Unvaccinated" which are so certified by registered medical men. When the medical attendant does not certify that the deceased has, or has not, been vaccinated, or when the cause of death is not certified by a registered practitioner, the case is returned under the heading "No Statement."

‡ In consequence of changes of classification the deaths from these diseases in years prior to 1832 cannot be ascertained; the averages are therefore only for the three years 1832-84.



TABLE 15 (continued).—Deaths Registered in London at several groups of Ages from different Causes during the 52 Weeks ending Saturday 2nd January 1886.

CAUSES OF DEATH.	Annual Average 1873-84.	TOTAL AT ALL AGES.	Under 5 Years.		5 and under 20.	20 and under 40.	40 and under 60.	60 and under 80.	80 and upwds.
			Under 1 Year.	1-5.					
Croup - - - - -	733	674	94	497	83	-	-	-	-
Bronchitis - - - - -	11489	10352	2671	1907	118	216	1461	3302	677
Pneumonia - - - - -	4773	4642	928	1309	244	629	835	632	65
Pleurisy - - - - -	277	327	10	36	22	77	105	72	5
Other Diseases of Respiratory System	1983	1563	290	291	71	124	375	389	53
Dentition - - - - -	786	766	427	339	-	-	-	-	-
Sore Throat, Quinsy - - - - -	113‡	98	14	40	18	11	8	6	1
Enteritis - - - - -	404	365	143	87	37	42	39	61	6
Peritonitis - - - - -	341	330	26	16	59	94	64	67	4
Diseases of Liver - - - - -	1669	1432	122	12	16	228	371	444	42
Others, Digestive System - - - - -	1495	1468	299	95	68	195	380	424	57
Disease of Lymphatics, &c. - - - - -	97‡	84	7	4	12	22	26	12	1
Diseases of Urinary System - - - - -	1799	1955	31	43	94	344	679	694	70
Diseases of Generative System	311	273	7	3	6	87	91	75	4
Accidents of Childbirth - - - - -	277	182	-	-	5	142	35	-	-
Diseases of Locomotive System - - - - -	413‡	387	13	32	136	63	61	46	4
Diseases of Integumentary System - - - - -	266‡	256	83	13	3	21	35	85	16
(ACCIDENT OR NEGLIGENCE.)†									
Fractures and Contusions - - - - -	1087	985	34	108	134	193	267	212	34
Wounds { Gunshot - - - - -	6	6	-	2	2	1	2	2	-
{ Cut, Stab - - - - -	26	18	1	1	1	4	8	2	-
Burns and Scalds - - - - -	230	299	19	148	43	29	26	34	5
Poison - - - - -	73	77	5	11	7	23	25	6	-
Drowning - - - - -	423	233	3	10	65	78	59	13	-
Suffocation - - - - -	650	574	494	22	8	17	21	11	1
Otherwise - - - - -	173	111	40	7	10	12	29	13	-
(BATTLE.)									
Gunshot Wounds - - - - -	-	-	-	-	-	-	-	-	-
(HOMICIDE.)†									
Murder and Manslaughter - - - - -	88	62	30	2	7	15	5	3	-
(SUICIDE.)†									
Wounds { Gunshot - - - - -	29	35	-	-	1	15	16	2	1
{ Cut, Stab - - - - -	75	67	-	-	1	19	32	15	-
Poison - - - - -	70	84	-	-	4	34	36	10	-
Drowning - - - - -	67	42	-	-	1	20	16	5	-
Hanging - - - - -	88	77	-	-	2	16	37	22	-
Otherwise - - - - -	33	40	-	-	1	19	14	6	-
(EXECUTION.)									
Hanging - - - - -	3	4	-	-	-	3	1	-	-
All Other Causes - - - - -	3554‡	3045	2465	175	33	46	105	182	39

\* See note \* on preceding page.

† The evidence at inquests is often insufficient to enable the coroner to certify whether a violent death resulted from accident, murder, manslaughter, or suicide. All such cases are classed under "accident or negligence."

‡ In consequence of changes of classification the deaths from these diseases in years prior to 1882 cannot be ascertained, the averages in these cases are therefore only for the three years 1882-84.

TABLE 16.—Causes of Deaths REGISTERED in London in each of the 11 Years 1875-1885, and in each Quarter of 1885.

YEARS - - - -	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1885.			
												QUARTER ENDING			
												Apr. 4	July 4	Oct. 3	Jan. 2 1886.
CAUSES OF DEATH.	364 Days.	364 Days.	364 Days.	364 Days.	371 Days.	364 Days.	364 Days.	364 Days.	364 Days.	371 Days.	364* Days.	91 Days.	91 Days.	91 Days.	91 Days.
ALL CAUSES - -	31513	77411	77002	83695	85540	81128	81071	82905	80578	83050	80000	21973	19675	18170	19882
Small-pox { Vaccinated - } { Unvaccinated - } { No statement }	75	735	2544	1416	458	475	2371	108 184	42 319	250 330	218 330	79 155	113 146	24 25	2 1
Measles - - - -	1427	1741	2347	1510	2488	1501	2533	2329	2420	2285	2928	490	1186	611	641
Scarlet Fever - -	3651	2297	1576	1792	2706	3073	2108	2004	1989	1444	707	192	138	188	191
Typhus - - - -	128	163	159	150	70	72	96	52	58	31	28	7	12	7	2
Relapsing Fever† -	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Influenza - - -	21	23	15	9	9	11	8	6	11	6	3	3	-	-	-
Whooping-cough -	3232	2739	1780	4446	3000	3438	1961	4647	1582	3188	2479	607	662	541	669
Diphtheria - - -	546	359	317	558	592	541	654	863	951	973	896	202	213	234	243
Simple & Undefined Fever	312	232	204	201	168	125	123	90	90	78	82	14	23	24	21
Enteric Fever - -	842	751	886	1010	861	689	977	975	933	936	585	181	130	155	169
Simple Cholera - -	107	131	88	123	64	134	95	79	83	163	79	1	9	63	6
Diarrhoea, Dysentery	3276	3589	2572	3721	1986	3823	3053	2162	2644	3781	2657	133	271	2042	211
Remittent Fever† -	-	-	-	-	-	-	-	21	17	20	16	5	5	3	3
Hydrophobia - -	6	6	16	5	2	3	5	4	8	9	27	3	4	9	11
Glanders - - - -	-	3	3	4	5	3	2	1	1	-	1	-	-	1	-
Cowpox and Vaccination†	-	-	-	-	-	-	-	14	12	12	7	1	1	4	4
Venerical Affections - -	543	525	500	524	538	537	551	517	583	537	543	189	126	149	129
Erysipelas - - -	433	379	322	278	244	340	353	347	324	381	338	104	67	55	112
Pyæmia Septicæmia†	-	-	-	-	-	-	-	167	147	159	148	47	39	32	70
Puerperal Fever - -	304	255	217	195	194	208	332	287	307	327	323	117	72	55	79
Other Zymotic Diseases†	-	-	-	-	-	-	-	85	98	102	104	26	36	16	26
Thrush - - - -	185	179	167	172	166	185	178	112	127	119	112	27	22	42	21
Worms and other Para- sitical Diseases - -	14	12	18	26	17	32	23	26	17	17	17	3	7	2	5
Starvation, Want of Breast Milk†	-	-	-	-	-	-	-	127	99	87	92	21	16	37	18
Alcoholism, Delirium Tre- mens - - - -	206	195	184	202	215	164	198	226	283	243	180	47	45	50	33
Rheumatic Fever, Rheu- matism of Heart - -	614	509	451	432	445	467	601	338 160	384 145	444 140	416 129	112	96	90	118
Rheumatism - - -	-	-	-	-	-	-	-	113	166	190	170	37	32	31	29
Gout - - - -	140	144	179	135	187	189	162	149	136	163	176	59	52	27	38
Rickets† - - - -	-	-	-	-	-	-	-	-	-	-	-	47	48	43	32
Cancer - - - -	1951	1973	1910	2086	2165	2229	2358	2442	2547	2623	2674	649	663	650	662
Tabes Mesenterica -	1573	1456	1450	1515	1468	1650	1384	1370	1421	1594	1434	236	309	513	266
Tubercular Meningitis -	1451	1418	1559	1625	1618	1629	1669	1252	1420	1316	1325	322	393	350	200
Phthisis - - - -	8797	8731	8519	8885	8800	8029	8312	8409	8917	8881	8372	2270	2099	1904	2099
Scrofula, Tuberculosis	654	590	654	687	690	734	698	749	788	994	890	187	268	252	183
Other Constitutional Dis.†	-	-	-	-	-	-	-	379	508	515	517	128	129	119	141
Premature Birth - -	1255	1325	1281	1350	1398	1565	1489	1745	1861	1911	1937	404	457	465	421
Atelectasis† - - -	-	-	-	-	-	-	-	100	136	136	150	36	48	28	33
Congenital Malformations	314	310	349	333	346	348	338	325	328	333	376	105	91	108	72
Old Age - - - -	2462	2399	2379	2514	2866	2195	2568	2554	2730	2473	2552	767	627	537	621
Apoplexy - - - -	2195	2165	2175	2341	2363	2250	2345	2085	1983	2141	2149	624	532	460	533
Epilepsy - - - -	418	387	371	358	396	334	373	345	333	378	346	99	94	74	79
Convulsions - - -	2595	2609	2544	2558	2582	2445	2264	2563	2549	2602	2343	612	615	576	540
Other Diseases of Brain, &c.	3987	3790	3947	4197	4341	4135	4091	4678	4181	4440	4313	1251	1120	965	977
Diseases of Organs of Special Sense† - -	-	-	-	-	-	-	-	80	135	121	112	24	23	33	32
Diseases of Circulatory System - - - -	4418	4217	4451	4705	4871	4548	4865	5201	5394	5472	5755	1744	1278	1107	1536

\* For comparison of the numbers in 1885 with the corrected averages for the ten years 1875-84, see Table 15.

† In consequence of changes of classification, the deaths from these diseases cannot be given for years prior to 1882.



TABLE 16 (cont.)—Causes of Deaths REGISTERED in London in each of the 11 Years 1875-1885 ; and in each Quarter of 1885.

YEARS - - - -	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1885.			
												QUARTER ENDING			
												Apr. 4	July 4	Oct. 3	Jan 2 1886.
CAUSES OF DEATH.	364 Days.	364 Days.	364 Days.	364 Days.	371 Days.	364 Days.	364 Days.	364 Days.	364 Days.	371 Days.	364* Days.	91 Days.	91 Days.	91 Days.	91 Days.
Croup - - - -	722	603	529	600	577	570	695	873	827	751	674	202	163	147	172
Bronchitis - - -	10601	9231	9007	10879	14212	11138	9374	11003	10011	9211	10352	3849	2113	1100	3203
Pneumonia - - -	4552	4210	4068	4398	5130	4173	4167	4554	4431	4254	4042	1383	1222	739	1298
Flourisy - - - -	271	237	222	247	268	241	240	269	292	261	327	87	103	64	73
Other Diseases of Respira- tory System - - - }	2068	1937	1880	1906	2141	1841	1792	1695	1511	1484	1563	485	365	257	476
Dentition - - - -	774	681	695	775	732	660	353	705	768	796	766	227	202	160	177
Sore Throat, Quinsy† -	-	-	-	-	-	-	-	115	113	102	98	29	17	15	37
Enteritis - - - -	379	341	349	370	337	429	442	373	364	326	365	78	65	149	73
Peritonitis - - -	296	298	307	275	281	299	371	347	336	340	330	80	98	75	77
Diseases of Liver - -	1564	1607	1555	1569	1461	1513	1514	1529	1496	1555	1432	360	385	343	344
Others, Digestive System-	1235	1279	1317	1290	1389	1342	1377	1424	1500	1662	1468	369	343	394	362
Diseases of Lymphatic System and Ductless Glands† - - - }	-	-	-	-	-	-	-	78	100	105	84	18	21	17	28
Diseases of Urinary System	1524	1475	1509	1578	1604	1600	1677	1732	1985	1878	1955	530	479	448	498
Diseases of Generative System - - - - }	297	270	297	289	278	229	277	317	293	315	273	60	80	67	66
Accidents of Childbirth -	324	354	289	255	245	253	228	225	180	193	182	57	53	38	34
Diseases of Locomotive System† - - - }	-	-	-	-	-	-	-	433	398	381	357	93	86	88	90
Diseases of Integumentary System† - - - }	-	-	-	-	-	-	-	245	253	279	256	86	43	52	75
(ACCIDENT OR NEGLECT.)‡															
Fractures and Contusions -	1004	1020	957	965	963	897	1030	1034	1076	1065	985	247	240	257	221
Wounds { Gunshot - - -	2	3	5	7	8	7	8	3	2	7	6	-	1	2	3
{ Cut, Stab - - - -	41	32	19	20	19	21	19	25	14	27	18	5	6	4	3
Burns and Scalds - - -	270	240	247	267	318	238	275	249	280	288	299	104	54	68	83
Poison - - - -	46	76	67	69	87	58	77	71	79	60	77	19	18	17	23
Drowning - - - -	375	343	316	369	311	326	337	351	360	305	233	52	85	70	26
Suffocation - - - -	555	559	548	569	630	605	646	643	623	601	574	169	124	92	189
Otherwise - - - -	189	211	158	150	154	128	184	126	115	165	111	26	31	31	23
Battle - - - -	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-
(HOMICIDE.)‡															
Murder and Manslaughter	70	96	78	78	88	89	87	83	75	70	62	15	16	12	19
(SUICIDE.)‡															
Wounds { Gunshot - - -	11	17	20	30	28	25	26	29	39	42	35	7	8	7	13
{ Cut, Stab - - - -	77	66	55	59	77	69	83	61	61	80	67	15	19	15	18
Poison - - - -	44	57	49	64	70	74	70	62	81	70	84	19	21	26	18
Drowning - - - -	57	68	44	59	64	67	69	64	81	71	42	7	15	12	8
Hanging - - - -	81	67	81	74	100	85	83	69	95	71	77	19	25	13	20
Otherwise - - - -	23	23	24	29	33	32	39	27	31	33	40	8	13	11	8
(EXECUTION.)															
Hanging - - - -	2	7	4	1	3	4	-	2	2	2	4	1	-	1	2
ALL OTHER CAUSES -	-	-	-	-	-	-	-	3458	3438	3500	3045	765	683	884	713

\* For comparison of the numbers in 1885 with the corrected averages for the ten years 1875-84, see Table 15.

† In consequence of changes of classification, the deaths from these diseases cannot be given for years prior to 1882.

‡ The evidence at inquests is often insufficient to enable the coroner to certify whether a violent death resulted from accident, murder, manslaughter, or suicide. All such cases are classed under "accident or negligence."

TABLE 17.—Deaths Registered in the London Registration Districts, and Mean Temperature at Greenwich, in each of the 11 Years 1875-1885.

REGISTRATION DISTRICTS.	AREA in Acres.*	DENSITY, Persons to an Acre, 1881.	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885
Mean Temperature - - -	-	-	49°·4	50°·1	49°·7	49°·6	48°·2	49°·4	48°·8	49°·7	49°·4	50°·7	48°·8
LONDON - - -	78,052	49	81,964	77,671	77,449	84,188	83,805	81,832	81,346	82,913	80,995	81,951	80,000
1a PADDINGTON † - - -	1251	86	5094	1971	1897	1942	2068	1881	1871	1943	1974	1974	2031
1b KENSINGTON † - - -	2190	74	2804	2914	2576	3118	2910	2874	2818	3074	3030	3033	3157
2 FULHAM - - - -	4209	27	1875	1964	1771	2338	2219	2231	2472	2500	2618	2696	2740
3 CHELSEA - - - -	861	102	1923	1753	1746	1920	2108	2008	1946	2037	2096	2065	2198
4 ST. GEO. HANOVER SQ. -	2051	73	3759	3370	3163	3340	3315	3163	3122	3086	3074	3040	2910
5 WESTMINSTER - - - -	216	216	1079	971	873	1098	979	986	931	880	775	841	765
6 MARYLEBONE - - - -	1506	103	3991	3627	3511	3654	3850	3498	3326	3115	2993	2807	2824
7 HAMPSTEAD - - - -	2248	20	652	693	901	873	625	590	619	666	660	841	707
8 PANCRAS - - - -	2672	88	5434	5193	5122	5365	5486	5333	5225	5077	4988	5181	4981
9 ISLINGTON - - - -	8107	91	4833	4969	5111	5376	5456	5716	5617	5943	5561	5515	5698
10 HACKNEY - - - -	3935	47	3145	3107	3550	3696	3440	3545	3990	3683	3756	3964	3772
11 ST. GILES - - - -	245	135	1217	1111	1095	1101	1095	1135	1019	1011	1009	1029	891
12 STRAND - - - -	433	78	1097	999	973	1073	1123	961	912	935	913	924	816
13 HOLBORN - - - -	816	186	3963	3651	3633	3680	3739	3209	3106	3187	2989	3039	2886
14 LONDON CITY - - - -	731	70	1885	1639	1583	1561	1591	1417	1469	1450	1443	1390	1419
15 SHOREDITCH - - - -	648	195	3296	2825	2877	3133	3074	2959	3001	3247	3023	2873	2941
16 BETHNAL GREEN - - -	755	163	3114	2832	2904	2957	2949	2910	3064	3068	3082	2349	2797
17 WHITECHAPEL - - - -	405	176	2483	2361	2511	2445	2448	2245	2361	2344	2257	2200	2081
18 ST. GEO.-IN-THE-EAST -	244	193	1191	1151	1224	1152	1409	1212	1333	1197	1248	1185	1232
19 STEPNEY - - - -	569	103	1344	1264	1299	1334	1402	1325	1279	1355	1396	1316	1300
20 MILE END OLD TOWN -	679	156	2137	2223	2199	2287	2484	2346	2253	2386	2263	2193	2075
21 POPLAR - - - -	2648	59	3430	3377	3474	3679	3672	3797	3524	3979	3734	3719	3567
22 ST. SAVIOUR SOUTHWARK -	1170	167	4689	4071	4336	4765	4728	4599	4270	4754	4366	4647	4232
23 ST. OLAVE SOUTHWARK -	1728	78	3325	3408	3275	3810	3712	3364	3346	3514	3310	3382	3032
24 LAMBETH - - - -	4060	62	5647	5197	5534	5801	5669	5750	5406	5687	5402	5451	5187
25 WANDSWORTH - - - -	11707	18	3112	3163	3004	3308	3423	3637	3660	3845	4105	4203	4192
26 CAMBERWELL - - - -	4450	42	3024	2737	2711	3357	3454	3546	3491	3777	3428	3845	3750
27 GREENWICH - - - -	3301	35	2339	2433	2333	2809	2341	2936	3458	3026	2925	3193	3036
28 LEWISHAM - - - -	11436	6	965	973	930	1064	985	1064	1051	1074	1054	1117	1125
29 WOOLWICH - - - -	7281	11	1507	1699	1343	2132	1550	1594	1401	1330	1538	1439	1330

NOTE. — This Table is compiled from the Abstracts which appear in the Registrar General's Annual Reports, excepting for the year 1885, for which the numbers are derived from the Weekly Returns embracing 52 weeks.

\* These areas have been supplied to the Registrar General by the Ordnance Survey Department, and include 2718 acres of tidal water, or of the river Thames. For area of Greater London see Table 8.

† Prior to 1st January 1885, Paddington and Kensington constituted one Registration District.



TABLE 18.—LONDON.—Births and Deaths; DEATHS of INFANTS under 1 Year of Age, and of PERSONS aged 60 Years and upwards, from ALL CAUSES; DEATHS from the principal ZYMOIC DISEASES and from VIOLENCE; INQUEST CASES, DEATHS in PUBLIC INSTITUTIONS, and UNCERTIFIED DEATHS, in GROUPS of DISTRICTS, and in each REGISTRATION DISTRICT during the 52 Weeks ending Saturday, 2nd January 1886.

REGISTRATION DISTRICTS.	Enumerated Population, 1881.	Total Births in 52 Weeks.	Total Deaths in 52 Weeks.	The DEATHS registered in the 52 Weeks include																
				Deaths of		Deaths from														
				Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus Fever.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhoea.	Cholera.	Violence.	Inquest Cases.	Deaths in Public Institutions.	Uncertified Causes of Death.	
LONDON	3816483	132506	80000	19594	18278	809	2928	707	896	2479	28	585	82	2657	79	2714	5578	17048	908	
WEST DISTRICTS	669633	20242	13819	3118	3476	82	420	61	148	407	4	84	12	501	11	441	926	3500	79	
NORTH DISTRICTS	905947	29308	18042	4305	4325	350	800	184	274	521	7	160	24	568	17	530	1232	3630	62	
CENTRAL DISTRICTS	282238	8119	6012	1326	1204	12	197	38	69	165	-	43	6	184	1	311	600	1585	34	
EAST DISTRICTS	692138	20410	16043	4133	3308	51	774	279	120	515	7	92	16	538	15	634	1385	3947	214	
SOUTH DISTRICTS	1265927	47927	26084	6712	5965	404	737	145	285	871	10	206	24	866	35	798	1435	4386	529	
WEST DISTRICTS.																				
St. PADDINGTON*	107218	2998	2031	449	523	5	66	6	30	55	1	19	4	59	2	95	170	471	-	
St. KENSINGTON*	133151	4077	3157	652	953	5	106	5	18	101	-	9	-	89	-	62	154	950	11	
St. FULHAM	114359	5388	2749	823	574	68	120	25	19	104	1	15	5	179	2	84	208	378	15	
St. CHELSEA	88123	3310	2198	560	469	1	47	8	33	72	1	13	-	87	3	53	160	546	4	
St. GEO. HANOVER SQ.	149748	3459	2919	485	756	2	52	12	46	45	-	21	2	64	2	129	193	989	37	
St. WESTMINSTER	46540	1050	765	149	196	1	29	5	5	30	1	7	1	23	2	18	41	157	12	
NORTH DISTRICTS.																				
St. MARYLEBONE	154910	4769	2824	710	658	1	110	5	28	54	-	18	2	108	2	88	187	481	7	
St. HAMPSTEAD	45452	1297	767	143	212	49	20	19	7	18	-	9	2	11	1	23	48	152	1	
St. PANCRAS	236258	7520	4981	1123	1188	10	195	26	37	153	-	37	5	132	1	209	461	1420	11	
St. ISLINGTON	282965	9643	5698	1382	1337	134	295	37	157	210	3	44	12	195	8	118	336	810	11	
St. HACKNEY	186462	6579	3772	947	930	156	180	37	45	86	4	52	3	122	5	92	200	767	22	
CENTRAL DISTRICTS.																				
St. ST. GILES	45282	1326	891	199	278	3	16	2	6	27	-	8	-	26	-	25	68	235	2	
St. STRAND	33582	679	816	128	143	1	14	1	11	11	-	12	2	16	-	71	119	358	4	
St. HOLBORN	151835	5291	1886	853	494	8	150	32	26	99	-	11	4	122	-	82	238	297	21	
St. LONDON CITY	51489	823	1419	146	259	-	17	3	26	28	-	12	-	20	1	133	175	695	7	
EAST DISTRICTS.																				
St. SHOREDITCH	126591	4829	2941	792	724	5	134	52	25	105	1	13	-	115	3	74	188	712	27	
St. BETHNAL GREEN	126961	5158	2787	750	557	5	160	48	20	96	1	11	5	85	4	82	209	534	18	
St. WHITECHAPEL	71363	2382	2081	395	355	3	58	15	16	40	-	12	2	53	1	187	238	1098	12	
St. ST. GEO.-IN-THE-EAST	47157	1775	1282	328	285	2	70	28	4	49	1	1	1	79	3	32	84	219	49	
St. STEPNEY	58543	2124	1300	390	155	3	83	24	20	48	1	10	-	40	-	66	136	220	36	
St. MILE END OLD TOWN	105613	3955	2075	537	471	9	112	54	11	87	-	29	1	57	-	43	138	252	65	
St. POPLAR	156510	6187	3567	901	761	24	157	53	24	90	3	16	7	104	4	150	342	812	7	
SOUTH DISTRICTS.																				
St. ST. SAVIOUR SOUTHWARK	195164	7339	4232	1149	919	31	138	20	28	117	-	20	3	136	5	76	232	710	76	
St. ST. OLAVE SOUTHWARK	134632	5012	2032	696	639	22	98	39	44	80	1	20	2	102	6	164	271	842	41	
St. LAMBETH	253099	9143	5187	1250	1242	83	115	19	85	142	2	46	3	170	4	185	314	1135	112	
St. WANDSWORTH	210454	8606	4192	1215	912	5	140	11	25	178	-	36	7	180	6	103	177	371	64	
St. CAMBERWELL	183593	7171	3750	1011	897	51	89	17	45	137	1	18	1	122	2	67	152	402	82	
St. GREENWICH	131283	5242	3036	742	674	204	83	35	33	123	6	29	4	78	9	103	155	623	82	
St. LEWISHAM	73327	2387	1125	283	317	3	49	-	10	37	-	17	1	38	2	27	35	100	12	
St. WOOLWICH	80845	3030	1530	366	365	5	25	4	12	52	-	11	3	40	1	73	90	503	60	

TABLE 19.—LONDON.—TOTAL Births and Deaths; DEATHS of INFANTS under 1 Year of Age, and of PERSON aged 60 Years and upwards from ALL CAUSES; DEATHS from the principal ZYMOTIC DISEASES, and from VIOLENCE; INQUEST CASES, DEATHS in PUBLIC INSTITUTIONS, and UNCERTIFIED DEATHS; registered in each REGISTRATION SUB-DISTRICT during the 52 Weeks ending Saturday, 2nd January 1886.

REGISTRATION SUB-DISTRICTS.		Enumerated Population, 1881.	Total Births in 52 Weeks.	Total Deaths in 52 Weeks.	The DEATHS registered in the 52 Weeks include																	Inquest Cases.	Deaths in Public Institutions.	Uncertified Causes.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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					Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Typhus Fever.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhoea.	Cholera.	Violence.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Note.—The letters placed against the names of the sub-districts denote Public Institutions situated therein, namely:—W—Workhouse; WH—Workhouse Establishment receiving inmates from other Districts than that in which it stands (see note at the foot of next page); H—Hospital; L—Lunatic Asylum. Deaths in Prisons and Military Asylums are not included.



19 (continued). LONDON.—TOTAL Births and Deaths; DEATHS of INFANTS under 1 Year of Age, and of PERSONS aged 60 Years and upwards from ALL CAUSES; DEATHS from the principal ZYMOTIC DISEASES, and from VIOLENCE; INQUEST CASES, DEATHS in PUBLIC INSTITUTIONS, and UNCERTIFIED DEATHS; registered in each REGISTRATION SUB-DISTRICT during the 52 Weeks ending Saturday, 2nd January 1886.

REGISTRATION SUB-DISTRICTS.		Enumerated Population, 1881.	Total Births in 52 Weeks.	Total Deaths in 52 Weeks.	The DEATHS registered in the 52 Weeks include															Inquest Cases.	Deaths in Public Institutions.	Uncertified Causes of Death.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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The following WORKHOUSE Establishments receive inmates from other Districts than the one in which they stand, and are indicated in the Table by a \*.

Marylebone Infirmary in Kensington Town sub-district.  
 Central London Sick Asylum in Tottenham-court sub-district.  
 Holborn Infirmary in Upper Holloway sub-district.  
 London City Workhouse in Hackney sub-district.  
 Holborn " " Hoxton New Town sub-district.  
 Whitechapel " " Mile End Old Town Eastern sub-district.

London City Workhouse in { Mile End Old Town Eastern sub-dist. and  
 Bromley sub-district.  
 Stepney " " Bromley sub-district.  
 Poplar & Stepney Sick Asylum " " " "  
 Westminster Union Industrial School in West Battersea sub-district.  
 Metropolitan Asylum District Hospitals in Fulham, Hammersmith,  
 Hackney, Brixton, and St. Paul Deptford sub-districts.

Private Lunatic Asylums in which paupers received.

TABLE 20.—OUTER RING.—TOTAL BIRTHS and DEATHS; DEATHS of INFANTS under 1 Year of Age, and of PERSONS aged 60 Years and upwards from ALL CAUSES; DEATHS from the principal ZYMOETIC DISEASES and from VIOLENCE; INQUEST CASES, DEATHS in PUBLIC INSTITUTIONS, and UNCERTIFIED DEATHS; registered in each REGISTRATION SUB-DISTRICT during the 52 Weeks ending Saturday, 2nd January 1886.

District and Sub-district Numbers.	REGISTRATION SUB-DISTRICTS.	Area in Acres, including Tidal Water and Fore-shore.	Enumerated Population, 1881.	BIRTHS.	DEATHS.	The DEATHS registered in the 52 Weeks include															
						Deaths of		Deaths from										Inquest Cases.	Deaths in Public Institutions.	Uncertified Causes of	
						Infants under 1 Year of Age.	Persons aged 60 Years & upwds.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhoea.	Cholera.	Violence.					
LONDON—OUTER RING		370,282	950,178	38,018	19,489	4839	4769	780	519	125	324	474	221	686	14	539	977	2406	30		
30:1	Carshalton <i>wL</i> - -	12228	21118	610	456	57	134	-	2	-	3	-	4	10	-	8	8	240	2		
2	Epsom ( <i>part of</i> ) * <i>WH</i>	9971	10710	295	223	34	86	-	-	3	8	1	1	3	-	3	11	61	8		
37:1	Godstone ( <i>part of</i> ) * -	2754	1235	39	15	2	6	-	-	-	-	-	1	-	-	-	1	2	-		
38:1	Croydon <i>WwHHL</i> - -	20851	101241	3339	1875	383	499	41	96	7	20	42	17	41	-	49	77	362	10		
2	Mitcham <i>w</i> - -	11697	17932	636	277	79	67	-	11	1	3	12	2	9	-	6	14	4	9		
39:1	Wimbledon <i>HHH</i> - -	3220	15950	675	271	73	58	3	14	5	5	6	3	13	-	6	7	10	2		
2	Kingston <i>WHH</i> - -	8549	36354	1170	630	123	186	3	3	3	12	12	3	14	-	24	38	86	4		
3	Esher ( <i>part of</i> ) * <i>H</i> -	6601	9221	297	133	27	44	-	-	-	2	-	-	2	-	4	11	1	-		
4	Hampton <i>H</i> - -	4573	13539	451	243	50	83	-	-	-	5	2	2	9	1	17	17	3	-		
40:1	Richmond <i>WH</i> - -	2272	21302	670	363	81	103	-	-	2	2	3	6	17	-	12	16	74	2		
2	Mortlake - -	2941	12331	436	208	52	57	-	8	2	2	-	1	12	-	13	17	-	-		
41:1	Bromley ( <i>part of</i> ) * <i>HH</i>	15669	31149	1108	494	125	133	2	2	2	5	23	1	12	-	23	24	8	15		
2	Chislehurst ( <i>part of</i> ) * <i>W</i>	13665	15065	573	257	52	95	8	-	-	1	1	2	10	-	7	10	52	7		
42:1	Bexley <i>H</i> - -	18437	24134	806	377	83	120	5	2	1	4	5	4	11	-	16	27	5	11		
124:1	Sunbury <i>w</i> - -	11055	11685	327	219	49	44	-	13	1	-	1	25	4	-	5	16	25	2		
2	Staines <i>W</i> - -	13277	12089	412	210	48	74	-	2	1	4	3	5	10	-	1	9	30	1		
125:1	Hillingdon <i>WHH</i> - -	6029	10802	374	222	45	91	1	2	-	-	-	4	1	1	6	16	55	-		
2	Uxbridge - -	6178	5225	172	96	31	34	-	-	-	-	11	-	-	-	3	9	-	1		
3	Hayes <i>wHL</i> - -	14587	11523	352	278	42	77	-	1	1	5	8	2	4	-	12	19	120	1		
126:1	Isleworth <i>WHH</i> - -	7008	22727	694	450	81	162	3	10	-	2	-	9	14	-	17	35	98	-		
2	Twickenham <i>HHH</i> - -	2477	12479	406	214	45	69	1	3	-	1	6	2	6	-	10	23	5	1		
3	Brentford <i>HL</i> - -	4345	27649	996	452	112	137	1	4	1	3	7	3	22	-	18	44	6	4		
4	Chiswick - -	1340	15975	662	301	88	61	4	20	5	9	4	3	16	2	7	21	-	2		
5	Acton <i>wH</i> - -	6083	22876	879	447	163	85	-	16	1	5	7	7	36	-	10	21	12	6		
127:1	Harrow <i>H</i> - -	13809	12796	403	166	43	33	1	6	-	5	7	2	1	-	4	12	1	1		
2	Edgware <i>H</i> - -	6994	37479	113	56	9	22	-	2	-	-	-	-	-	-	4	7	-	-		
3	Willesden - -	4588	27453	1373	628	225	110	1	21	4	14	20	9	31	2	17	45	-	1		
4	Hendon <i>W</i> - -	8382	10184	523	255	66	93	-	8	1	1	6	-	7	-	8	13	74	-		
137:1	Bushey - -	9331	6621	188	102	11	41	-	-	-	9	-	1	-	-	6	6	-	-		
128:1	South Mimms - -	15599	6391	224	100	19	39	-	2	3	3	1	-	3	-	7	6	1	1		
2	Barnet <i>W</i> - -	5423	10092	311	174	26	75	-	1	3	1	3	1	5	-	2	4	34	6		
3	Finchley <i>HHH</i> - -	4688	17615	636	418	51	92	-	-	2	3	9	2	4	-	11	21	185	-		
135:1	Hatfield ( <i>part of</i> ) * -	3306	583	16	11	2	6	-	-	-	-	-	-	-	-	-	-	-	-		
129:1	Hornsey <i>H</i> - -	3039	37078	1340	601	147	133	1	22	5	27	18	3	17	1	10	33	8	-		
2	Tottenham <i>H</i> - -	4642	46456	2756	1181	341	237	13	27	5	64	22	15	60	2	43	80	41	32		
3	Edmonton <i>Ww</i> - -	7183	23463	1045	649	133	275	37	5	4	8	13	4	34	1	16	31	284	4		
4	Enfield <i>WH</i> - -	12053	19104	819	375	112	92	5	13	-	5	20	1	14	-	11	25	5	5		
5	Waltham Abbey - -	11017	5368	176	85	23	24	-	6	-	-	1	-	1	-	2	5	-	3		
6	Cheshunt - -	8480	7733	243	142	31	43	1	5	-	9	2	-	4	-	6	6	-	2		
136:1	Stratford - -	832	38606	1679	810	252	138	22	20	11	5	32	20	31	-	22	33	-	8		
2	West Ham <i>wwwwwHH</i>	7351	101053	5503	3021	886	308	582	117	37	36	93	34	108	-	49	92	243	103		
3	Leyton <i>WuL</i> - -	4372	32430	1558	921	200	260	20	12	9	9	32	11	23	3	11	16	286	21		
4	Walthamstow <i>HH</i> - -	6520	28869	1540	629	204	138	3	38	2	15	31	5	53	1	13	22	2	13		
137:1	Chigwell ( <i>part of</i> ) * <i>H</i>	11761	9639	319	134	22	40	-	3	3	1	1	3	8	-	5	7	3	1		
139:1	Romford ( <i>part of</i> ) * -	6730	3111	116	52	6	4	-	-	-	-	-	-	-	-	2	2	-	-		
2	Ilford - -	8493	7645	274	122	34	27	5	1	-	7	4	2	8	-	5	7	-	8		
3	Barking Town - -	4127	9203	500	166	57	34	17	1	-	1	5	1	8	-	8	8	-	15		

\* The parts of sub-districts included within that portion of the Metropolitan Police District which forms the Outer Ring are as follow:—  
 30: 2, the whole of Epsom sub-district, except the parishes of Ashstead and Headley (pop. 1265); 37: 1, the two parishes of Warringham and Farley in Godstone sub-district; 39: 3, the whole of Esher sub-district, except the parish of Esher (pop. 1993); 41: 1, the whole of Bromley sub-district, except the two parishes of Cudham and Knockholt (pop. 1818); 41: 2, the whole of Chislehurst sub-district, except the parish of Chislefield (pop. 947); 135: 1, only the parish of Northaw in Hatfield sub-district; 137: 1, the whole of Chigwell sub-district, except the parish of Theydon Bois (pop. 875); 139: 1, only the parish of Dagenham in Romford sub-district.



TABLE 21.—Deaths in London; and Meteorology at Greenwich Observatory.

YEARS.	Total Number of Deaths. (a)	Mean Temperature of Air.	Dryness of Atmosphere.*	Fall of Rain in Inches.	Mean Hourly Amount of Horizontal Movement of the Air by Robinson's Anemometer.†
Averages of 40 Years, 1841-1880. }	66,484	49°·3	5°·6	24°·8	Miles. 110°·8
Averages of 10 Years, 1841-1850. }	52,206	49°·4	5°·2	24°·5	—
Averages of 10 Years, 1851-1860. }	61,023	49°·0	5°·7	24°·4	10°·0
Averages of 10 Years, 1861-1870. }	73,632	49°·6	5°·9	23°·9	10°·8
Averages of 10 Years, 1871-1880. }	79,075	49°·2	5°·5	26°·4	11°·6
1841	45284	48°·7	5°·0	33°·3	—
1842	45272	49°·6	4°·6	22°·6	—
1843	48574	49°·4	3°·7	24°·6	—
1844	50423	48°·6	4°·9	24°·9	—
1845	48332	47°·6	4°·4	22°·4	—
1846	49089	51°·3	5°·1	25°·3	—
1847	60442	49°·5	5°·4	17°·8	—
1848	57628	50°·4	6°·4	30°·2	—
1849	68432	50°·0	6°·6	23°·9	—
1850	48579	49°·3	6°·1	19°·7	11°·0
1851	55354	49°·2	6°·5	21°·6	10°·3
1852	54213	50°·6	7°·4	34°·2	10°·6
1853	61202	47°·7	6°·2	29°·0	9°·5
1854	73697	45°·9	4°·7	18°·7	10°·3
1855	61506	47°·1	4°·5	21°·1	9°·9
1856	56786	49°·0	5°·6	22°·2	10°·6
1857	60150	51°·0	5°·2	21°·4	9°·3
1858	63882	49°·2	6°·5	17°·8	9°·7
1859	61617	50°·7	6°·0	25°·9	9°·5
1860	61821	47°·0	4°·6	32°·0	10°·0
1861	65001	49°·4	5°·0	20°·8	9°·9
1862	66950	49°·5	4°·7	26°·2	10°·0
1863	72346	50°·3	6°·0	20°·0	10°·3
1864	77723	48°·5	7°·0	16°·7	9°·5
1865	73460	50°·3	6°·2	29°·0	9°·3
1866	80129	49°·8	5°·6	30°·5	11°·4
1867	70588	48°·6	5°·6	28°·4	11°·8
1868	74908	51°·6	6°·8	25°·2	12°·2
1869	77933	49°·5	5°·7	24°·0	12°·2
1870	77278	48°·7	6°·7	18°·5	11°·1
1871	80332	48°·7	6°·0	22°·3	10°·5
1872	70893	50°·7	5°·5	30°·0	11°·9
1873	76634	48°·9	5°·4	23°·4	11°·8
1874	76606	49°·4	4°·7	20°·0	11°·5
1875	81513	49°·4	5°·9	27°·3	11°·5
1876	77411	50°·1	6°·4	23°·9	12°·1
1877	77002	49°·7	6°·6	26°·8	13°·0
1878	83695	49°·6	5°·8	29°·2	11°·1
1879	85540	46°·2	4°·0	31°·3	11°·3
1880	81128	49°·4	5°·0	29°·7	11°·7
1881	81071	48°·8	5°·7	25°·2	12°·1
1882	82905	49°·7	5°·0	25°·1	12°·8
1883	80578	49°·4	5°·8	21°·9	12°·1
1884	83050	50°·7	6°·3	18°·1	11°·9
1885	80000	48°·6	6°·0	24°·0	12°·0

NOTE.—This Table does not include the deaths in Wandsworth and Clapham for the years 1841-3; nor the deaths in Hampstead and Lewisham for 1841-6.

(a) The deaths in this Table as well as the Meteorology are compiled from the Registrar General's Weekly Returns, which embrace 364 days (for eight years 1847, 1853, 1857, 1863, 1868, 1873, 1879, and 1884, 371 days); for this reason the figures differ from those which relate to complete years from 1st January to 31st December, published in Table 17.

\* The column headed "Dryness of Atmosphere" shows the difference between the dew point temperature and air temperature. The mean dew point temperature, for any year, may be obtained by subtracting the number in the column headed "dryness" from the mean temperature in the same period.

† For the years 1850-59 the results are only approximative, having been reduced to Robinson's anemometer from observations made with Whewell's.

‡ Average of 30 years.

TABLE 22.—Deaths Registered in the Public Institutions of London, 1875-1885.

	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
TOTAL DEATHS IN PUBLIC INSTITUTIONS	13946	14073	14936	15502	15999	14730	16965	15792	16707	17143	17146
WORKHOUSES (including the Metropolitan Asylum Hospitals)	8015	8174	9134	9606	9946	9059	10692	9375	9968	10109	10130
PRISONS	77	69	62	46	57	59	50	38	45	45	41
MILITARY AND NAVAL ASYLUMS	96	79	69	75	88	64	68	51	55	53	57
GENERAL HOSPITALS	4420	4442	4318	4549	4651	4435	4880	5144	5304	5537	5473
HOSPITALS FOR SPECIAL DISEASES—	436	483	612	531	497	472	574	476	594	728	701
{ Women	20	33	34	0	21	18	22	23	21	17	18
LYING-IN HOSPITALS—	49	68	43	23	46	44	49	54	84	49	102
{ Children	238	184	203	192	211	184	202	186	207	183	150
MILITARY AND NAVAL HOSPITALS	122	100	113	138	143	127	135	170	148	187	148
HOSPITALS FOR FOREIGNERS	473	441	348	333	539	268	293	275	281	285	326
LUNATIC ASYLUMS											

TABLE 23.—Deaths in 164 Public Institutions, registered.

		DEATHS.			PUBLIC INSTITUTIONS.	SUB-DISTRICT in which situated.	DEATHS.		
		TOTAL.	Males.	Females.			TOTAL.	Males.	Females.
TOTAL DEATHS IN 164 PUBLIC INSTITUTIONS							17146	9683	7463
					<b>WORKHOUSES—continued.</b>				
51 WORKHOUSES	- - - - -	10180	5463	4687	Mile End Old Town	{ 20; 2. Mile End Old Town Eastern	198	93	105
10 PRISONS	- - - - -	41	36	5	Whitechapel (South)	{ 20; 2. Mile End Old Town Eastern	5	5	
2 MILITARY ASYLUMS	- - - - -	57	57	-	City of London Infirmary	{ part of { 20; 2. Mile End Old Town Eastern	51	3	4
51 GENERAL HOSPITALS	- - - - -	5473	3262	2211	Poplar and Stepney Sick Asylum	{ part of { 21; 2. Bromley	166	116	5
28 HOSPITALS FOR SPECIAL DISEASES	- - - - -	701	304	337	Stepney (Aged and Infirm)	{ 21; 2. Bromley	522	315	207
6 LYING-IN HOSPITALS	- - - { Women Children	18	-	18	Poplar	- - - 21; 3. Poplar	24	17	
5 MILITARY AND NAVAL HOSPITALS	- - - - -	102	50	46			56	36	2
4 HOSPITALS FOR FOREIGNERS	- - - - -	150	148	2	St. Saviour's	- - - 22; 1. Christch. Southwrk.	91	87	
7 LUNATIC ASYLUMS	- - - - -	143	111	37	St. Saviour's	- - - 22; 4. Borough Road	15	9	
		326	166	160	St. Saviour's Infirmary	- - - 23; 7. St. Peter Walworth	554	286	268
					St. Olave's	- - - 23; 1. St. Olave, Southwk.	18	9	
					St. Olave's	- - - 23; 3. St. Mary Magdalen	162	104	58
					St. Olave's (Workhouse and Infirmary)	- - - 23; 5. Rotherhithe	179	109	70
					Lambeth (Workhouse and Infirmary)	- - - 24; 4. Lambeth Church 2d part	472	248	224
					Metrop. Asylum Hospitals (South-Western Dist.)	- - - 24; 7. Brixton	91	45	46
					Lambeth (Work. School)	- - - 24; 8. Norwood	6	3	
					Wandsworth (Workhouse and Infirmary)	- - - 25; 3. West Battersea	234	139	111
					Camberwell (Workhouse and Infirmary)	- - - 26; 2. Camberwell	296	150	144
					Camberwell (Gordon Rd.)	- - - 26; 3. Peckham	30	12	1
					Metrop. Asylum Hospitals (South-Eastern Dist.)	- - - 27; 1. St. Paul Deptford	220	121	99
					Greenwich (Workhouse and Infirmary)	- - - 27; 4. Greenwich East	317	172	145
					Lewisham	- - - 28; 8. Lewisham	93	43	50
					Woolwich (Workhouse and Infirmary)	- - - 29; 5. Plumstead East	153	82	71
					<b>PRISONS.*</b>				
					Convict Prison (Wormwood Scrubbs)	- - - 2; 2. St. Paul Hammers.	3	3	
					Female Convict Prison	- - - 2; 3. Fulham	1	-	1
					Millbank Penitentiary	- - - 4; 4. St. John Westm.	3	-	3
					City Prison (Holloway)	- - - 9; 1. Upper Holloway	6	6	
					Pentonville Model Prison (Males)	- - - 9; 2. Islington Sth.-West	3	3	
					Middlesex House of Detention	- - - 13; 4. St. James, Clerkenwll.	1	-	1
					Middlesex House of Correction (Males)	- - - 13; 5. Amwell (Holborn)	8	8	
					City Prison (Newgate)	- - - 14; 3. St. Sepulchre	3	3	
					Convict Prison (Males)	- - - 24; 7. Brixton	2	2	
					Surrey County Prison	- - - 25; 4. Wandsworth	11	11	
					<b>MILITARY ASYLUMS.</b>				
					Royal Military Hospital Chelsea, <i>Ex-Pensioners</i>	- - - 3; 1. Chelsea South	55	55	
					Royal Military Asylum, Chelsea, <i>Boys</i>	- - - 3; 1. Chelsea, South	2	2	
					<b>GENERAL HOSPITALS.</b>				
					For Children	- - - 1a; 1. St. Mary Paddington	50	27	23
					St. Mary's	- - - 1a; 2. St. John Paddington	260	162	98
					West London	- - - 2; 2. St. Paul Hammersm.	99	58	41
					Victoria (Children)	- - - 3; 1. Chelsea South	49	26	23
					Cheyne (Children)	- - - 3; 1. Chelsea South	7	4	3
					St. Raphael's	- - - 3; 2. Chelsea North-west	8	8	

NOTE.—The Workhouse Establishments printed in *italics* receive inmates from other Districts than those in which they are situated.

\* PRISONS.—The deaths of the children of prisoners are not included.



During the 52 Weeks ending Saturday, 2nd January 1886.

PUBLIC INSTITUTIONS.	SUB-DISTRICT in which situated.	DEATHS.			PUBLIC INSTITUTIONS.	SUB-DISTRICT in which situated.	DEATHS.		
		TOTAL.	Males.	Females.			TOTAL.	Males.	Females.
GENERAL HOSPITALS—continued.					HOSPITALS FOR SPECIAL DISEASES—continued.				
St. George's	4; 3. Belgrave	383	252	131	Diseases of Throat	5; 1. St. James Westm.	5	4	1
Belgrave (Children)	4; 3. Belgrave	10	6	4	For Women	5; 2. St. Anne Soho	23	-	23
St. Gabriel's (Children)	4; 3. Belgrave	10	4	6	Heart disease	5; 2. St. Anne Soho	6	5	1
Grosvenor	4; 4. St. John Westm.	2	-	2	St. John's (Skin Dis.)	5; 2. St. Anne Soho	1	1	-
Westminster	4; 5. St. Margaret Westm.	192	109	83	Male Lock	5; 2. St. Anne Soho	1	1	-
Fiddlesex	6; 1. All Souls Marylebone	309	167	142	St. Agnes (Consumption)	6; 1. All Souls Maryleb.	3	-	3
All Saints Home	6; 1. All Souls Marylebone	1	1	-	National (for the De- formed)	6; 1. All Souls Maryleb.	1	-	1
Ladies'	6; 2. Cavendish Square	4	-	4	Home for Consumptive Females	6; 4. St. Mary Maryleb.	1	-	1
Maritan Free	6; 3. Rectory Marylebone	15	1	14	New (Women)	6; 5. Christch. Maryleb.	5	-	5
St. Peter's Home (Kilburn)	7; 1. Hampstead	19	1	18	Epilepsy, &c.	6; 6. St. John (Maryleb.)	1	1	-
University College	8; 2. Tottenham Court	312	201	111	North London (Con- sumption)	7; 1. Hampstead	19	9	10
Home	8; 2. Tottenham Court	10	3	7	St. Saviour's (Cancer)	8; 1. Regent's Park	8	-	8
Medical & Surgical Home	8; 2. Tottenham Court	3	2	1	Central London Throat and Ear	8; 3. Gray's Inn Lane	3	3	-
Royal Free	8; 3. Gray's Inn Lane	150	81	69	Small-pox	9; 1. Upper Holloway	103	62	41
Comperance	8; 4. Somers Town	34	22	12	London Fever	9; 2. Islington South-west	19	4	15
North-west London	8; 5. Camden Town	54	33	21	St. Peter's (Stone, &c.)	12; 2. St. Mary-le-Strand	6	8	-
Great Northern	9; 2. Islngtn. South-West	25	18	7	National for Paralysed and Epileptic	13; 1. St. George the Martyr	12	10	2
Memorial Cottage (Mild- may)	9; 4. Highbury	14	6	8	Alexandra (Hip Diseases)	13; 1. St. George the Martyr	1	-	1
Invalid Asylum	10; 1. Stoke Newington	1	-	1	St. Mark's (Fistula)	13; 8. Old Street	2	-	2
Charing Cross	12; 1. St. Martin-in-the- Fields	179	109	70	Royal for Dis. of Chest	13; 9. City Road	14	8	6
King's College	12; 3. St. Clement Danes	171	102	69	Royal London Ophthalmic	14; 6. Broad Street	2	1	1
London Homeopathic	13; 1. St. George the Martyr	37	19	18	City of London for Diseases of the Chest	16; 2. Green	99	61	38
St. John and St. Eliza- beth's	13; 1. St. George the Martyr	25	-	25	LYING-IN HOSPITALS.				
Hosp. for Sick Children	13; 1. St. George the Martyr	122	60	62	St. John the Divine	3; 2. Chelsea Women North-west Children	2	-	2
City Police	14; 1. St. Botolph	2	2	-	Queen Charlotte's	6; 4. St. Mary (Marylebone) Children	6	-	6
St. Bartholomew's	14; 3. St. Sepulchre	685	434	251	British	11; 2. St. Giles Women South Children	1	-	1
Joanvent	15; 2. St. Leonard	8	2	1	City of London	13; 9. City Road Women Children	13	8	5
North-Eastern (Children)	15; 5. Haggerston	67	33	34	Mothers' Lying-in Home	19; 1. Shadwell Women Children	1	-	1
Mildmay Medical Mission	16; 1. Hackney Road	16	9	7	General (York Road)	24; 2. Waterloo Women 2d part Children	4	-	4
Metropolitan Free	17; 1. Spitalfields	4	3	1	MILITARY AND NAVAL HOSPITALS.				
London	17; 3. Whitechapel Church	792	508	284	Station Hospitals	4; 4. St. John Westminster	28	28	-
East London (Children)	19; 1. Shadwell	218	108	110	Seamen's	27; 4. Greenwich East	74	73	1
Poplar	21; 2. Bromley	35	32	3	Herbert	29; 1. Charlton	36	36	-
St. John's	21; 3. Poplar	9	2	7	Garrison Female	29; 3. Woolwich Arsenal	1	-	1
St. Elina (Children)	22; 4. Borough Road	23	7	16	Arsenal Infirmary	29; 3. Woolwich Arsenal	11	11	-
Guy's	23; 1. St. Olave	480	297	183	HOSPITALS FOR FOREIGNERS.				
Cottage	23; 5. Rotherhithe	3	3	-	French	5; 2. St. Anne Soho	22	16	6
Royal Infirmary (Women and Children)	24; 1. Waterloo 1st part	48	20	28	German	10; 4. Hackney	113	85	28
St. Thomas's	24; 3. Lambeth Church 1st	502	305	197	Italian	13; 1. St. George the Martyr	10	8	2
British Home for In- curables	25; 1. Clapham	5	4	1	Spanish and Portuguese Jews	20; 2. Mile End Old Town Eastern	3	2	1
Royal Hospital for In- curables	25; 4. Wandsworth	7	3	4	LUNATIC ASYLUMS.*				
Miller Memorial	27; 3. Greenwich West	6	2	4	St. Luke's Hospital	13; 9. City Road	8	3	5
Cottage	27; 4. Greenwich East	6	3	3	Hoxton House *	15; 2. St. Leonard	56	30	26
Cottage	28; 1. Eltham	2	1	1	Bethnal House *	16; 2. Green	54	28	26
Home for Sick Children	28; 4. Sydenham	5	2	3	Bethlehem Hospital	22; 5. London Road	27	20	7
HOSPITALS FOR SPECIAL DISEASES.					Surrey County	25; 4. Wandsworth	105	49	56
Lock	1a; 1. St. Mary Paddington	4	-	4	Peckham House *	26; 2. Camberwell	39	21	18
Consumption & Disease of Chest	1b; 2. Brompton	141	88	53	Camberwell House *	26; 2. Camberwell	87	15	22
Cancer	3; 2. Chelsea North-west	103	69	34					
For Women	3; 2. Chelsea North-west	8	-	8					
St. Anne's Home	3; 2. Chelsea North-west	4	-	4					
Diseases of Women and Children	4; 4. St. John Westm.	1	-	1					

\* LUNATIC ASYLUMS.—Private Lunatic Asylums are excluded from this list, except those in which pauper lunatics are received, which are marked with an asterisk.

TABLE 24. LONDON.—Weekly Deaths from Small-pox, Measles, Scarlet Fever, Diphtheria  
WEEKLY Numbers from Six of these DISEASES during the Forty

	SMALL-POX.				MEASLES.				SCARLET FEVER.				DIPHTHERIA.			
	1882	1883	1884	1885	1882	1883	1884	1885	1882	1883	1884	1885	1882	1883	1884	1885
YEAR	431	134	913	899	2329	2420	2285	2928	2004	1989	1444	707	863	951	973	8
March Quar.	212	52	60	382	545	483	549	490	352	417	390	192	201	207	208	20
June „	128	27	293	420	629	795	1024	1186	348	325	343	138	215	220	207	21
Sept. „	53	23	196	84	401	655	419	611	505	546	346	186	218	236	243	23
Dec. „	38	32	364	13	754	487	293	641	799	701	365	191	229	288	315	24
Weeks.																
1 -	20	5	6	34	53	50	48	14	44	37	33	16	13	21	16	20
2 -	21	7	2	47	44	46	47	27	38	31	38	21	14	14	15	14
3 -	20	3	5	43	49	56	42	20	28	42	34	18	17	13	16	13
4 -	24	8	2	29	39	33	42	16	28	40	32	19	14	24	16	13
5 -	13	5	1	41	36	28	30	16	21	45	33	18	18	20	23	15
6 -	17	2	4	34	41	29	19	28	20	33	34	17	16	14	19	10
7 -	17	3	2	32	46	20	35	31	24	29	22	14	6	14	26	14
8 -	8	6	4	18	35	28	42	29	34	36	37	16	13	18	14	10
9 -	23	7	8	16	42	19	32	52	20	27	22	15	14	13	12	10
10 -	19	2	1	22	34	29	46	51	28	19	27	7	15	12	12	8
11 -	8	1	11	19	36	51	61	53	26	20	27	16	13	18	14	20
12 -	13	3	3	21	46	36	49	70	20	29	26	10	19	14	13	17
13 -	9	-	11	26	44	58	56	83	21	29	25	5	29	12	12	16
14 -	14	1	13	36	51	51	60	70	20	15	22	9	21	20	14	14
15 -	8	2	8	41	49	57	63	92	23	14	20	9	28	20	17	21
16 -	8	2	11	39	36	46	79	103	16	21	23	10	19	19	18	10
17 -	16	1	12	32	57	40	95	99	32	17	30	12	14	20	17	14
18 -	13	2	10	44	54	55	85	91	25	22	38	13	14	16	11	24
19 -	10	3	19	45	47	60	93	65	26	29	24	13	13	13	7	21
20 -	9	1	30	28	36	66	82	93	31	29	31	12	12	17	11	10
21 -	10	1	17	38	46	77	81	90	23	36	25	10	13	14	19	17
22 -	6	2	36	34	50	67	69	120	37	24	29	9	12	17	22	18
23 -	10	3	40	23	58	76	85	98	19	31	21	12	18	22	16	17
24 -	15	3	27	21	32	59	73	95	30	27	33	7	20	15	24	16
25 -	9	2	41	13	62	65	81	90	36	31	24	13	19	12	11	14
26 -	-	4	29	26	51	76	78	80	30	29	23	9	12	15	20	18
27 -	6	1	30	11	33	65	56	73	28	35	26	12	16	12	15	15
28 -	4	-	21	11	44	70	42	82	26	30	23	13	8	26	15	16
29 -	4	-	23	6	37	77	55	65	28	32	40	11	13	21	19	19
30 -	2	6	17	10	40	63	34	71	47	32	28	18	9	13	20	20
31 -	1	1	11	5	33	68	44	58	38	39	31	20	15	16	16	23
32 -	4	2	16	12	25	56	40	49	39	59	30	9	19	21	18	13
33 -	5	2	9	4	41	70	41	38	40	35	19	12	17	9	19	13
34 -	1	1	21	5	27	53	28	55	36	49	32	12	18	19	17	14
35 -	7	4	12	3	32	57	22	46	42	40	24	14	18	19	16	16
36 -	9	1	11	3	29	19	16	25	38	43	18	15	17	14	31	23
37 -	3	1	9	6	17	24	11	14	29	48	23	20	23	21	22	25
38 -	-	2	6	3	21	15	18	15	53	55	26	16	17	26	21	13
39 -	7	2	10	5	22	18	12	20	61	49	26	14	22	19	14	24
40 -	3	3	9	2	25	11	12	17	71	63	26	21	28	19	21	14
41 -	3	3	9	-	24	32	9	28	78	57	16	22	26	24	16	23
42 -	3	-	10	-	45	25	12	27	88	66	27	18	28	23	21	18
43 -	3	2	15	4	45	22	16	23	67	56	22	10	9	20	22	10
44 -	-	3	21	1	54	23	22	41	65	61	28	15	13	13	22	16
45 -	4	2	22	1	57	37	32	51	70	60	32	19	19	22	17	26
46 -	4	-	35	1	78	47	19	44	68	55	36	11	21	25	17	20
47 -	2	1	33	1	64	49	14	62	59	41	36	12	16	21	31	20
48 -	5	5	30	1	76	38	31	69	52	59	27	12	18	28	16	16
49 -	5	2	37	1	67	44	28	57	45	53	23	14	20	23	29	20
50 -	-	7	45	-	97	53	23	58	41	40	22	10	13	24	27	21
51 -	3	2	33	-	66	52	33	70	48	42	26	18	12	19	28	24
52 -	2	2	32	1	58	54	20	94	47	48	16	9	12	22	20	22
53 -	-	-	33	-	-	-	22	-	-	-	28	-	-	-	28	-



whooping-cough, Fever, and Diarrhoea, during the Four Years 1882-1885; and the AVERAGE for the Years 1840-1885, and from Diphtheria during the Twenty-six Years 1860-1885.

COOPING-COUGH.				FEVER.				DIARRHOEA.				WEEKLY AVERAGE in 46 Years, 1840-85.							
	1883	1884	1885	1882	1883	1884	1885	1882	1883	1884	1885	Small-pox.	Measles.	Scarlet Fever.	Diphtheria (26 years).	Whooping- cough.	Fever.	Diarrhoea.	
7	1582	3188	2479	1117	1081	1045	695	2162	2644	3781	2657	19	32	46	10	46	37	49	YEAR.
4	458	1104	607	314	270	241	152	169	192	147	133	23	29	37	10	62	37	13	March Qr.
3	403	1296	662	193	177	223	165	260	294	201	271	23	35	33	10	54	34	18	June „
0	341	505	541	197	242	310	186	1426	1879	3097	2042	14	27	48	10	32	36	141	Sept. „
7	380	283	669	413	392	271	192	307	279	336	211	16	35	65	12	36	42	24	Dec. „
3	31	68	38	24	25	14	16	12	15	8	11	23	40	48	11	53	39	13	Weeks.
8	29	63	40	31	15	20	9	13	12	4	8	23	36	46	10	54	39	14	- - - 1
0	26	69	49	20	20	26	10	11	18	10	8	25	33	45	10	59	37	13	- - - 2
5	37	80	60	19	20	22	15	23	13	9	12	23	28	41	10	64	38	13	- - - 3
4	35	85	41	26	19	16	8	15	19	7	9	25	26	37	11	66	37	14	- - - 4
1	42	78	50	18	20	22	11	8	14	10	6	24	24	36	11	66	36	13	- - - 5
5	35	83	43	18	30	22	14	11	15	17	11	23	23	36	10	63	37	13	- - - 6
5	28	82	45	28	20	12	10	14	12	17	9	22	25	35	9	64	36	14	- - - 7
4	42	74	37	21	18	16	10	7	12	15	7	23	25	33	9	62	34	14	- - - 8
5	45	92	49	17	14	26	10	14	9	11	14	22	26	32	9	63	37	12	- - - 9
7	33	117	45	27	21	18	15	13	18	12	12	21	28	30	10	63	37	12	- - - 10
0	32	101	55	37	16	12	10	19	18	20	18	20	29	30	9	65	34	13	- - - 11
9	43	112	55	28	32	15	14	9	17	7	8	20	31	31	10	69	37	12	- - - 12
8	42	125	55	22	23	12	12	9	9	15	16	23	32	29	9	66	34	12	- - - 13
3	36	124	46	24	20	24	17	9	8	5	7	23	33	30	11	66	36	12	- - - 14
9	40	129	57	9	13	17	15	13	13	14	21	24	32	31	10	64	36	13	- - - 15
5	35	117	51	15	12	21	2	14	19	6	16	24	34	30	10	60	35	12	- - - 16
4	24	112	46	14	12	12	14	18	17	13	13	24	34	32	9	57	34	13	- - - 17
8	43	119	57	8	12	10	16	14	11	11	9	22	35	31	9	58	32	12	- - - 18
3	22	107	68	18	13	13	18	12	12	9	16	25	35	32	9	56	34	13	- - - 19
1	27	92	50	20	12	15	15	15	10	17	20	25	36	35	9	55	34	14	- - - 20
8	32	74	46	15	14	17	15	13	16	16	11	22	39	35	10	51	33	16	- - - 21
3	23	88	39	15	12	20	8	28	27	14	23	33	38	36	10	47	33	13	- - - 22
8	22	61	42	11	12	18	8	42	25	21	24	22	38	34	10	43	33	23	- - - 23
9	28	68	46	10	8	21	13	32	55	21	44	22	38	38	10	43	32	34	- - - 24
0	29	80	59	12	14	23	12	41	72	39	51	21	36	37	10	42	32	43	- - - 25
5	30	53	51	15	11	26	11	73	167	104	110	18	35	39	9	39	33	77	- - - 26
8	31	57	77	18	18	30	20	102	325	336	209	17	33	39	10	39	34	121	- - - 27
3	28	59	51	11	11	23	12	118	351	533	284	16	33	39	10	38	34	171	- - - 28
7	29	67	47	19	16	21	10	108	254	466	348	16	32	42	9	37	35	209	- - - 29
4	23	46	41	14	7	19	14	118	168	301	309	14	32	45	9	33	33	202	- - - 30
2	15	37	44	13	16	19	17	147	94	219	222	14	28	45	9	33	34	190	- - - 31
0	26	28	43	12	12	33	16	164	119	242	163	14	28	44	9	29	36	176	- - - 32
7	27	36	45	16	19	21	17	158	63	207	121	14	25	48	10	28	36	160	- - - 33
8	27	22	30	9	23	31	8	153	74	209	83	13	23	49	10	28	38	143	- - - 34
5	22	36	39	15	36	22	14	95	87	178	62	13	21	55	10	28	38	124	- - - 35
1	30	27	25	18	31	17	12	78	62	126	40	12	19	56	11	27	40	102	- - - 36
0	31	22	26	15	25	28	17	78	54	86	49	12	20	58	12	26	41	83	- - - 37
5	22	15	22	22	17	20	18	34	61	90	42	11	19	65	11	26	41	69	- - - 38
0	14	11	34	31	22	20	20	29	48	70	35	12	22	68	12	27	41	54	- - - 39
3	22	11	29	30	28	26	10	48	26	57	27	12	23	71	12	25	41	45	- - - 40
4	22	15	31	34	25	18	11	34	38	44	21	12	26	70	12	27	43	36	- - - 41
5	25	12	36	35	30	15	10	25	31	27	17	13	26	72	11	27	44	28	- - - 42
3	14	13	29	38	27	27	11	26	17	26	8	13	30	71	11	30	44	23	- - - 43
0	19	39	37	39	23	12	17	27	22	19	13	15	34	69	12	30	42	20	- - - 44
3	33	16	42	34	40	24	27	19	19	19	16	16	36	69	12	34	43	19	- - - 45
1	29	24	47	32	35	23	15	17	17	15	7	12	39	68	14	35	43	16	- - - 46
4	43	28	58	37	28	17	8	17	14	12	16	18	44	64	12	38	43	15	- - - 47
7	42	31	72	25	29	16	18	20	12	6	3	20	44	59	12	45	43	14	- - - 48
8	42	31	78	26	32	20	11	22	11	9	13	20	45	62	18	40	41	13	- - - 49
0	46	22	116	19	21	11	20	19	10	7	17	22	43	50	13	53	38	13	- - - 50
3	-	33	-	-	-	11	-	-	-	15	-	-	-	-	-	-	-	-	- - - 51
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- - - 52
0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- - - 53

TABLE 25.—Temperature at Greenwich; Total Deaths, and Deaths at Seven groups of Ages, in London, in each Week of the Year 1885.

POPULATION estimated to the middle of 1885 - - -					4,089,928	119,413	412,462	1,235,381	1,367,165	692,929	241,191	15,387
Number of Week.	WEEK ENDING	TEMPERATURE.			AGES AT DEATH.							
		Mean.	Highest Reading.	Lowest Reading.	ALL AGES.	Under 1 Year.	1-5	5-20	20-40	40-60	60-80	80 and upwards.
	YEAR (of 52 Weeks)	° 48·6	° 90·2	° 22·3	80,000	19,594	13,319	4,846	10,271	13,692	15,000	3,278
	March Quarter	40·3	60·5	22·3	21,973	4,686	3,325	1,293	2,894	4,011	4,715	1,049
	June "	52·4	84·7	29·9	19,675	4,436	3,643	1,307	2,622	3,380	3,536	751
	September "	59·1	90·2	30·6	18,470	5,981	2,970	1,100	2,236	2,784	2,794	605
	December "	42·8	59·9	23·3	19,882	4,491	3,381	1,146	2,519	3,517	3,955	873
	1885.											
1	January 10	38·0	50·6	26·6	1956	334	225	107	252	402	511	125
2	" 17	35·1	44·3	28·9	1855	354	261	100	261	360	411	108
3	" 24	31·9	37·0	22·3	1807	380	206	107	251	363	404	96
4	February 31	43·6	52·8	24·7	1886	378	239	106	250	345	449	110
5	" 7	43·6	54·1	32·4	1592	307	227	105	220	289	370	74
6	" 14	46·2	57·8	33·8	1525	320	218	96	208	290	328	65
7	" 21	40·0	51·2	26·9	1497	330	257	99	196	279	278	58
8	" 28	45·8	58·3	33·0	1569	364	243	111	202	285	297	67
9	March 7	40·3	55·9	29·2	1495	356	256	80	204	254	293	52
10	" 14	38·2	50·2	26·8	1678	424	273	96	211	269	351	54
11	" 21	41·9	60·2	25·2	1678	370	297	100	207	300	324	80
12	" 28	49·1	52·7	27·8	1734	395	315	97	205	289	352	81
13	April 4	43·3	60·5	28·1	1701	374	308	80	218	286	347	79
14	" 11	41·9	55·2	29·9	1859	308	327	105	255	328	375	71
15	" 18	45·6	68·6	34·6	1706	370	293	127	224	287	328	77
16	" 25	54·7	73·6	38·6	1743	379	296	98	209	336	349	76
17	May 2	51·9	67·7	40·1	1549	324	292	83	227	277	281	65
18	" 9	46·7	65·0	31·8	1465	296	294	107	206	273	243	46
19	" 16	47·4	62·4	33·2	1496	333	254	120	214	250	263	62
20	" 23	48·4	61·1	38·2	1554	334	299	112	209	254	290	56
21	" 30	56·0	74·8	41·0	1583	340	296	99	188	261	283	62
22	June 6	62·6	84·7	44·0	1521	342	294	108	210	246	253	68
23	" 13	58·5	76·3	39·4	1315	305	280	90	178	218	218	46
24	" 20	58·7	82·7	41·4	1284	316	258	80	170	185	228	47
25	" 27	58·3	82·8	44·7	1279	318	256	84	153	227	199	42
26	July 4	60·5	77·3	46·0	1366	372	224	94	179	238	225	33
27	" 11	65·0	84·7	46·2	1472	408	251	82	191	198	226	56
28	" 18	61·2	78·6	47·2	1614	561	304	97	172	222	222	36
29	" 25	64·5	87·1	44·7	1636	627	281	90	153	209	214	62
30	August 1	65·2	90·2	54·1	1750	723	289	99	165	211	220	43
31	" 8	59·4	74·0	46·9	1720	687	287	88	183	218	219	48
32	" 15	59·6	76·1	40·2	1472	555	231	83	144	202	212	45
33	" 22	58·2	80·2	45·6	1473	499	214	77	175	237	221	50
34	" 29	57·6	74·8	46·7	1371	408	230	75	180	207	227	44
35	September 5	57·2	73·7	43·2	1238	362	192	65	163	231	183	42
36	" 12	56·3	75·1	47·4	1221	303	203	79	174	205	213	44
37	" 19	57·7	76·4	47·8	1231	284	172	80	191	243	211	50
38	" 26	52·7	70·2	35·8	1081	260	149	81	170	184	186	51
39	October 3	49·6	61·1	30·6	1251	304	167	104	185	217	240	34
40	" 10	47·6	59·9	36·9	1309	309	187	83	191	252	246	41
41	" 17	45·4	59·4	31·5	1346	319	231	82	181	225	244	64
42	" 24	45·1	53·2	30·3	1458	347	206	77	206	268	284	70
43	" 31	44·0	57·1	32·3	1366	323	191	82	179	257	268	66
44	November 7	44·6	55·8	31·6	1483	334	228	79	197	231	297	67
45	" 14	43·3	49·7	30·1	1531	356	260	91	188	268	298	70
46	" 21	38·1	46·0	28·1	1557	367	254	87	203	288	289	69
47	" 28	45·1	57·1	38·4	1610	363	266	101	198	293	322	67
48	December 5	44·8	58·2	33·5	1544	357	281	93	183	265	296	69
49	" 12	32·7	40·5	23·3	1474	351	277	98	171	240	279	58
50	" 19	42·4	50·2	32·9	1725	339	318	85	221	300	377	85
51	" 26	39·3	48·2	26·7	1408	316	302	72	166	218	276	58
52	January (1886.) 2	40·5	51·5	27·7	2071	410	380	116	235	362	479	89



TABLE 26.—Births and Deaths Registered in London; and Meteorology at Greenwich, in each of the 52 Weeks of 1885.

No. of Week.	Week ending	BIRTHS.			DEATHS.			Mean Temperature of the Air.	Mean of the		Dryness of Atmosphere.*	Fall of Rain in Inches.	Mean Hourly Amount of Horizontal Movement of the Air in each Week.†	Sun above Horizon in Hours.	Registered Sunshine in Hours.
		Total.	Males.	Femls.	Total.	Males.	Femls.		Highest Readings of the Thermometer.	Lowest Readings of the Thermometer.					
1	1885.														
1	Jan. 10	2816	1415	1401	1956	945	1011	38° 0	42° 7	31° 9	2° 3	0° 57	12° 3	56° 0	7° 1
2	" 17	2876	1503	1373	1855	899	956	35° 1	37° 5	32° 5	4° 7	0° 27	21° 0	57° 6	1° 4
3	" 24	2803	1347	1456	1807	847	960	31° 9	35° 2	27° 7	2° 4	0° 00	6° 0	59° 7	2° 9
4	" 31	2727	1391	1336	1886	940	946	43° 6	48° 4	38° 7	2° 9	0° 58	17° 4	62° 1	5° 5
5	Feb. 7	2806	1414	1392	1592	812	780	43° 6	49° 5	37° 6	4° 6	0° 61	18° 8	64° 9	9° 7
6	" 14	2913	1473	1440	1525	766	759	46° 2	51° 3	41° 0	3° 5	0° 25	16° 2	67° 9	8° 6
7	" 21	2626	1268	1258	1497	765	732	40° 0	45° 1	36° 0	3° 8	0° 94	10° 9	70° 5	10° 5
8	" 28	2709	1406	1303	1569	823	746	45° 8	51° 7	39° 9	3° 6	0° 55	14° 2	74° 2	9° 0
9	March 7	2623	1378	1245	1495	751	744	40° 3	48° 0	34° 1	4° 0	0° 60	10° 6	77° 3	16° 3
10	" 14	2737	1367	1370	1678	854	824	38° 2	45° 7	31° 3	5° 7	0° 61	12° 4	80° 5	15° 6
11	" 21	2675	1330	1345	1678	841	837	41° 9	52° 0	32° 5	7° 5	0° 05	12° 9	83° 8	29° 7
12	" 28	2537	1271	1266	1734	869	865	39° 1	47° 6	31° 8	6° 8	0° 84	11° 0	87° 0	23° 9
13	April 4	2414	1247	1167	1701	852	849	43° 3	53° 9	32° 8	10° 4	0° 00	12° 7	90° 3	55° 4
14	April 11	2473	1223	1250	1859	971	888	41° 9	49° 5	35° 8	4° 3	0° 20	12° 6	93° 6	10° 5
15	" 18	2617	1358	1259	1706	865	841	45° 6	56° 2	37° 2	5° 2	1° 11	9° 8	96° 6	29° 2
16	" 25	2541	1292	1249	1743	889	854	54° 7	66° 4	44° 0	10° 5	0° 26	14° 1	99° 7	56° 8
17	May 2	2561	1286	1285	1549	793	756	51° 9	61° 8	42° 9	6° 9	0° 52	10° 0	102° 6	39° 2
18	" 9	2429	1235	1194	1465	778	687	46° 7	57° 6	38° 4	5° 7	0° 77	8° 9	105° 4	31° 4
19	" 16	2544	1318	1226	1496	784	712	47° 4	58° 9	36° 8	11° 2	0° 07	11° 7	108° 0	51° 5
20	" 23	2391	1222	1169	1554	811	743	43° 4	57° 9	41° 2	6° 3	0° 74	13° 6	110° 4	28° 9
21	" 30	2209	1144	1065	1538	805	733	56° 0	66° 5	47° 8	6° 9	0° 46	13° 0	112° 5	39° 9
22	June 6	2409	1228	1181	1521	765	756	62° 6	74° 5	51° 2	11° 9	0° 27	10° 4	114° 1	69° 6
23	" 13	2464	1259	1205	1315	662	653	58° 5	69° 5	47° 7	8° 3	0° 90	7° 7	115° 2	55° 3
24	" 20	2373	1212	1161	1284	666	618	58° 7	70° 6	48° 4	7° 6	0° 39	13° 2	115° 9	41° 8
25	" 27	2419	1255	1164	1279	681	598	58° 3	68° 2	49° 7	8° 5	0° 11	13° 4	116° 0	35° 2
26	July 4	2483	1288	1195	1366	729	637	60° 5	72° 7	49° 5	11° 3	0° 00	8° 5	115° 3	41° 1
27	July 11	2420	1199	1221	1412	756	666	65° 0	79° 5	51° 5	11° 3	0° 02	8° 5	114° 2	60° 5
28	" 18	2411	1267	1144	1614	847	767	61° 2	73° 5	51° 4	8° 6	0° 49	9° 7	112° 7	32° 8
29	" 25	2423	1297	1126	1636	849	787	61° 5	78° 1	52° 4	9° 4	0° 01	9° 8	110° 8	55° 9
30	August 1	2459	1260	1199	1750	924	826	65° 2	77° 7	56° 4	12° 5	0° 00	12° 0	108° 6	48° 3
31	" 8	2170	1110	1060	1720	935	785	59° 4	70° 8	51° 1	7° 3	0° 46	9° 1	105° 9	28° 8
32	" 15	2855	1505	1380	1472	766	706	59° 6	72° 5	49° 9	8° 3	0° 09	13° 8	103° 2	48° 4
33	" 22	2535	1285	1250	1473	725	748	58° 2	69° 4	49° 4	6° 4	0° 14	9° 0	100° 2	19° 7
34	" 29	2413	1226	1187	1371	692	679	57° 6	68° 4	49° 2	7° 8	0° 61	11° 4	97° 2	25° 7
35	Sept. 5	2538	1307	1231	1283	663	575	57° 2	68° 1	48° 6	6° 5	0° 40	10° 1	94° 1	26° 9
36	" 12	2330	1164	1166	1221	614	600	56° 3	66° 1	49° 3	4° 5	1° 33	14° 3	90° 9	21° 1
37	" 19	2542	1330	1212	1231	633	598	52° 7	66° 3	51° 2	4° 4	0° 86	11° 5	87° 8	15° 4
38	" 26	2438	1318	1120	1081	551	530	52° 7	62° 5	43° 8	7° 0	0° 18	10° 0	84° 6	34° 1
39	October 3	2516	1253	1263	1251	660	591	40° 6	57° 8	42° 1	4° 9	0° 52	13° 1	81° 3	16° 6
40	October 10	2491	1279	1212	1309	655	654	47° 6	54° 5	41° 1	4° 6	1° 09	16° 0	78° 2	14° 4
41	" 17	2582	1319	1263	1345	667	679	45° 4	52° 1	38° 5	5° 2	0° 44	12° 9	75° 1	13° 9
42	" 24	2572	1282	1290	1458	742	716	45° 1	50° 5	40° 8	3° 2	0° 94	8° 8	72° 0	5° 6
43	" 31	2581	1358	1243	1366	696	670	41° 0	49° 8	38° 4	4° 7	0° 80	15° 5	68° 9	13° 3
44	Nov. 7	2695	1410	1285	1483	743	740	44° 6	51° 0	37° 5	3° 1	0° 47	11° 5	65° 9	7° 1
45	" 14	2534	1295	1239	1531	807	724	43° 3	46° 1	39° 8	1° 4	0° 29	6° 8	63° 2	0° 0
46	" 21	2682	1381	1301	1557	765	792	38° 1	43° 3	32° 0	5° 1	0° 02	12° 2	60° 7	23° 2
47	" 28	2422	1243	1179	1610	810	800	45° 1	49° 3	41° 3	2° 0	1° 43	14° 3	58° 3	1° 0
48	Dec. 5	2656	1398	1258	1544	815	729	44° 8	50° 2	38° 3	2° 8	1° 14	17° 4	56° 5	4° 1
49	" 12	2504	1257	1247	1474	741	733	32° 7	36° 3	27° 8	6° 2	0° 06	11° 0	55° 2	8° 5
50	" 19	2671	1390	1281	1725	868	857	42° 4	46° 1	38° 0	2° 3	0° 04	8° 8	54° 3	7° 0
51	" 26	1965	1057	908	1408	720	688	39° 3	43° 3	34° 3	2° 2	0° 02	5° 9	54° 0	1° 2
52	Jan. (1886) 2	2996	1508	1488	2071	957	1114	40° 5	44° 9	35° 5	2° 9	0° 53	16° 0	54° 8	1° 4

\* The column headed "Dryness of Atmosphere" is the difference between the dew point temperature and air temperature. The mean dew point temperature, for any week, may be obtained by subtracting the number in the column headed "dryness" from the mean temperature in the same period.

† By Robinson's Anemometer, adopted in place of Whewell's, which was used formerly.

TABLE 27.—Greenwich Meteorological Elements for the Year 1885. By J. GLAISHER, Esq., F.R.S.

1884. MONTHS.	Mean Reading of the Barometer.	TEMPERATURE OF THE AIR.								Departure from Average of 114 Years. (1771-1885.)	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Weight of Vapour in a Cubic Foot of Air.	Mean additional Weight required for Saturation.	Mean Degree of Humi- dity. Saturation = 100.	Mean Weight of a Cubic Foot of Air.	RELATIVE PROPORTION OF WIND.				Mean Amount of Cloud.	RAIN.	
		Highest by Day.	Lowest by Night.	Range in Month.	Mean of all Highest.	Mean of all Lowest.	Mean Daily Range.	Mean for the Month.	N.								E.	S.	W.	Number of Days it fell.		Amount collected.	
January	29.713	52.8	22.3	30.5	40.2	32.3	7.9	36.6	+0.1	33.4	29.3	0.3	88	555	4	14	9	4	7.9	15	1.42		
February	29.543	58.3	26.9	31.4	49.4	38.6	10.3	43.0	+0.2	40.1	29.3	0.4	86	543	2	4	9	13	7.3	19	2.94		
March	29.900	62.3	25.2	35.0	49.0	32.5	16.5	40.3	+0.3	38.3	19.4	0.7	78	554	3	11	5	7	6.3	3	1.60		
April	29.616	73.6	28.1	45.5	57.7	38.9	18.8	47.7	+1.6	40.5	25.2	2.3	0.9	77	541	7	11	5	7	5.9	9	2.05	
May	29.628	74.7	31.3	43.0	60.3	41.3	19.0	49.9	+2.6	42.2	28.9	3.0	1.0	76	538	3	4	11	13	6.8	19	2.10	
June	29.857	84.7	39.4	45.3	70.9	49.2	21.7	59.5	+1.3	50.4	36.6	4.1	1.6	73	532	3	13	6	8	5.5	7	1.67	
July	29.996	90.2	44.7	45.5	77.0	52.5	24.5	63.8	+2.1	53.2	40.6	4.5	2.0	69	530	4	11	6	10	5.4	5	0.80	
August	29.796	80.2	40.2	40.0	69.8	49.8	20.0	55.1	+2.4	50.8	37.1	4.2	1.3	76	532	3	5	5	10	6.9	10	1.32	
September	29.713	76.4	30.0	45.3	64.7	47.2	17.5	55.1	+1.4	50.0	36.1	4.0	0.9	83	534	5	4	9	12	6.8	21	3.73	
October	29.530	69.9	31.5	38.4	52.4	40.1	12.3	46.1	+3.7	41.4	26.1	3.1	0.5	84	541	9	6	5	11	7.7	23	3.41	
November	29.721	68.2	23.1	35.1	48.1	37.8	10.3	43.3	+1.0	40.5	25.2	2.9	0.4	90	547	4	13	5	8	7.7	17	2.83	
December	30.031	50.2	23.3	26.9	42.9	34.0	8.9	38.9	-1.0	35.3	20.6	2.5	0.3	87	558	7	5	8	11	7.0	13	1.13	
Means	29.754	68.3	31.0	27.3	56.9	41.2	15.7	48.6	-0.1	44.9	28.1	3.2	0.9	81	542	64	104	83	114	6.8	166	24.00	
																Sums.				6.8	Sum	Sum	

TABLE 28.—METEOROLOGICAL TABLE FOR LONDON, 1885.

(Deduced from Observations, at Greenwich, under the Superintendence of the Astronomer Royal, and compiled from Quarterly Tables, furnished to the Registrar General by James Glaisher, Esq., F.R.S.)

	Temperature of						Elastic Force of Vapour.		Weight of Vapour in a Cubic Foot of Air.		Degree of Humidity.		Reading of Barometer.		Weight of a Cubic Foot of Air.		Rain.		Reading of Thermometer on Grass.					
	Air.		Evapora- tion.	Dew Point.		Air— Daily Range.		Mean.	Diff. from Average of 44 Years.	Mean.	Diff. from Average of 44 Years.	Mean (Sat <sup>n</sup> =100).	Diff. from Average of 44 Years.	Mean.	Diff. from Average of 44 Years.	Mean.	Diff. from Average of 44 Years.	Amount.	Diff. from Average of 71 Years.	Lowest Reading at Night.			Highest Reading at Night.	
		Mean.	Diff. from Average of 114 Years.	Diff. from Average of 44 Years.	Mean.	Diff. from Average of 44 Years.	Mean.	Diff. from Average of 44 Years.	Mean.	Diff. from Average of 44 Years.	Mean.	Diff. from Average of 44 Years.	Mean (Sat <sup>n</sup> =100).	Diff. from Average of 44 Years.	Mean.	Diff. from Average of 44 Years.	Mean.	Diff. from Average of 44 Years.	At or below 30°.			Between 30° and 40°.	Above 40°.	
1885.																								
YEAR	48·6	-0·1	-0·8	45·5	-0·8	42·6	-1·0	15·7	-0·1	-281	-0·14	3·2	-0·2	81	-2	29·754	-0·019	542	0	24·00	-1·28	100	16·9	57·8
First Quarter	40·3	+1·5	+0·3	38·3	+0·2	35·8	+0·3	11·7	-0·1	-211	+0·002	2·5	+0·1	83	0	29·719	-0·047	551	-2	5·26	+0·26	46	16·9	47·5
Second do.	52·4	+0·1	-0·5	48·4	-0·7	44·4	-1·1	19·8	-0·1	-296	-0·012	3·3	-0·2	75	-3	29·700	-0·082	537	-1	5·82	+0·01	18	22·9	54·3
Third do.	59·1	-0·6	-1·1	55·0	-1·4	51·3	-1·7	20·7	+1·0	-379	-0·027	4·2	-0·3	76	-2	29·835	+0·043	532	+2	5·55	-1·80	3	22·3	57·8
Fourth do.	42·8	-1·0	-1·7	41·1	-1·4	39·1	-1·6	10·5	-1·3	-240	-0·018	2·8	-0·3	87	-1	29·761	+0·012	540	+2	7·37	+0·25	33	18·8	44·1

In this Table, + and - respectively signify that the numbers in the preceding column are *above* or *below* the average to the extent of the quantities to which these signs are prefixed.



TABLE 29.—Houses, &amp;c. supplied, and Average Daily Quantity of Water delivered, by the London Water Companies in each MONTH of the Year 1885.

COMPANIES.	NUMBER OF HOUSES, &c. SUPPLIED IN											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
<b>Total Houses supplied</b>	-	-	-	-	-	-	-	-	-	-	-	-
FROM THAMES	685,417	686,651	688,239	690,172	691,585	693,303	696,562	698,005	699,978	701,633	702,930	704,738
FROM LEA AND FROM OTHER SOURCES	331,844	332,354	333,219	334,048	334,713	335,653	336,319	336,798	337,951	338,624	339,213	339,791
FROM LEA	353,573	354,297	355,020	356,124	356,882	357,653	360,243	361,297	362,027	363,009	363,717	364,947
FROM THAMES.												
CHELSEA	33,300	33,344	33,382	33,425	33,472	33,530	33,591	33,640	33,723	33,776	33,812	33,860
WEST MIDDLESEX	65,670	65,670	65,557	65,132	65,200	65,413	66,430	66,430	66,679	66,894	67,011	67,154
SOUTHWARK AND VAUXHALL	103,383	103,564	103,739	103,901	104,073	104,293	104,450	104,617	104,926	105,053	105,208	105,393
GRAND JUNCTION	50,090	50,198	50,388	50,518	50,665	50,815	50,949	51,072	51,228	51,330	51,456	51,556
LANBETH	79,401	79,558	79,553	80,072	80,303	80,603	80,869	81,039	81,396	81,571	81,726	81,885
FROM LEA AND OTHER SOURCES.												
NEW RIVER	143,238	143,451	143,659	143,974	144,136	144,240	144,705	145,110	145,263	145,690	145,953	145,994
EAST LONDON	147,081	147,421	147,903	148,308	148,659	149,174	151,082	151,439	151,961	152,288	152,588	152,566
KENT	63,254	63,425	63,458	63,842	64,087	64,239	64,456	64,649	64,803	65,031	65,214	65,637
<b>Total Quantities supplied</b>	-	-	-	-	-	-	-	-	-	-	-	-
FROM THAMES	143,590,238	143,126,891	143,625,679	146,019,035	153,167,480	169,016,623	179,112,515	167,771,518	157,551,438	152,494,501	151,740,669	150,604,497
FROM LEA AND FROM OTHER SOURCES	71,876,323	72,677,016	72,457,764	74,108,724	78,899,648	86,808,517	92,206,578	87,966,297	81,940,838	77,942,805	75,989,799	76,378,209
FROM LEA	71,713,915	70,449,875	71,167,915	71,910,311	74,297,832	82,208,103	86,906,997	79,805,281	75,601,610	74,552,196	75,750,810	74,286,288
FROM THAMES.												
CHELSEA	9,570,500	9,771,600	9,544,300	9,656,000	10,130,800	11,148,800	11,662,900	10,918,800	10,061,086	9,640,454	9,278,100	9,373,314
WEST MIDDLESEX	12,392,463	12,507,287	12,947,765	13,602,013	14,227,065	15,508,001	16,677,715	15,501,967	14,579,313	14,045,727	13,615,989	13,754,185
SOUTHWARK AND VAUXHALL	20,517,569	20,287,802	20,011,561	21,108,753	22,140,957	24,126,082	25,677,905	25,161,861	24,486,006	23,836,068	22,693,482	22,087,580
GRAND JUNCTION	14,010,931	14,628,627	14,679,838	14,974,858	15,802,886	17,507,634	18,113,980	16,503,169	15,471,933	14,702,056	15,214,648	15,191,130
LANBETH	15,384,800	15,431,700	15,274,300	14,767,100	16,337,400	18,373,000	20,144,018	19,820,500	17,351,500	16,218,000	15,817,600	15,972,000
FROM LEA AND OTHER SOURCES.												
NEW RIVER	26,130,000	25,864,000	27,015,000	28,595,000	28,604,000	32,071,000	32,609,000	31,616,000	33,795,000	28,316,000	28,476,000	27,340,000
EAST LONDON	35,485,838	34,777,390	34,395,327	34,870,053	34,948,988	38,113,397	40,698,256	36,093,172	34,927,152	35,851,878	36,406,730	36,339,441
KENT	10,099,077	9,808,485	9,957,588	10,445,258	10,714,544	12,023,709	13,208,651	12,006,109	10,879,448	10,381,318	10,868,080	10,556,847

Note.—The quantities of water in the above Table include the supply for various purposes other than for domestic consumption.

TABLE 30.—Houses, &c. supplied, and Average Daily Quantity of Water DELIVERED for ALL PURPOSES and for DOMESTIC PURPOSES, by the London Water Companies during 1885.

WATER COMPANIES.	AVERAGE NUMBER of HOUSES supplied during the Year.	AVERAGE DAILY SUPPLY OF WATER DURING THE YEAR.					
		Delivered.		Used for Domestic purposes.†			
		Gallons.	Cubic Metres.*	Gallons.	Gallons per House.		
					1884.	1885.	
Total	694,934	154,823,419	703,434	126,955,204	185	183	
FROM THAMES	335,875	79,105,080	359,411	64,866,166	193	193	
FROM LEA AND OTHER SOURCES	359,059	75,718,339	344,023	62,089,038	178	173	
FROM THAMES.							
CHELSEA	33,571	10,063,054	45,721	8,251,704	252	246	
WEST MIDDLESEX	66,378	14,122,084	64,163	11,580,109	173	174	
SOUTHWARK AND VAUXHALL	104,379	22,581,307	102,598	18,516,672	175	177	
GRAND JUNCTION	50,855	15,571,808	70,750	12,768,883	240	251	
LAMBETH	80,692	16,766,827	76,179	13,748,798	171	170	
FROM LEA AND OTHER SOURCES.							
NEW RIVER	144,619	23,737,583	130,568	23,564,818	169	163	
EAST LONDON	150,095	36,080,052	163,928	29,585,643	204	197	
KENT	64,345	10,900,704	49,527	8,938,577	139	139	
Columns	1.	2.	3.	4.	5.	6.	

\* A cubic metre is equal in volume to 35·3 cubic feet, or to 220·09668 imperial gallons. It is nearly equivalent to the old English *tun* of four hogsheads, holding 35·248 cubic feet. It is in general use on the Continent; and its volume of water weighs a metric *ton*, differing inconsiderably in weight from the *ton* in common use. It is equal to 100 decalitres: thus a decalitre equals 2·2009668 gallons.

† According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that during the year 1866 about 82 per cent. of the total supply of water for all purposes was for domestic use; this proportion has been applied in estimating the quantities for the year 1885 in columns 4, 5, and 6, showing the gallons probably used for domestic purposes. The average daily quantity of water supplied by the London Companies during the year 1885 was 154,823,419 gallons (703,434 cubic metres, equal to about as many *tuns* by measure, *tons* by weight), of which about 126,955,204 gallons (576,816 cubic metres) were probably used for domestic purposes. The average quantity used daily for domestic purposes in each house (see Col. 6) is equal to 83·0 decalitres, and corresponds to 23·4 gallons (10·6 decalitres) to each person. The Returns of the Water Companies include uninhabited houses.



REPORT on the ANALYSIS of the WATERS supplied by the METROPOLITAN WATER COMPANIES during the several MONTHS of the YEAR 1885. By Professor FRANKLAND, D.C.L., F.R.S., &c.

*Grove House, Pembroke Square, W.,  
16th February 1886.*

SIR,

I HAVE to report to you upon the results of my monthly chemical examinations of the water which was supplied to the inner, and portions also of the outer, circle of the Metropolis during the year 1885.

The general meteorological conditions during the past year resembled, on the whole, those of the previous one, the summer being again exceedingly dry. In consequence of the long drought, much difficulty was in many places, but fortunately not in London, experienced in obtaining an adequate supply of water. The absence of heavy floods in the basins of the rivers Thames and Lea, from which the Metropolitan water-supply is mainly derived, secured for the waters of these streams an exceptional freedom from organic matter during a large portion of the year. With the return of autumn, however, a heavy rainfall took place, and the floods were, as usual, accompanied by a large increase in the amount of organic matter. Notwithstanding, however, the unusually bad state of the rivers in November and December, as indicated by the proportion of organic matter being greater than in any month during the last three years, the water supplied by the Companies was, almost without exception, clear and free from any turbidity. This strikingly illustrates the very great improvement in the equipment of the Companies, by which they are now able to deal very much more efficiently than formerly with these periodical flood waters. To this subject, however, I shall have occasion to refer again in the course of this report.

During the past year the inner circle of the Metropolis has been supplied with an average daily volume of water estimated at 154,823,360 gallons. This amount is in excess of the average daily supply in 1884 by two and a half millions of gallons, whilst the average consumption of water per head of population suffered a slight diminution, being 29·0 gallons per day in 1884 and 28·6 gallons in 1885. Of the total volume, as much as 79,105,021 gallons were, on an average, taken from the Thames, 64,817,635 gallons from the Lea, and 10,900,704 gallons from deep wells in the chalk. The quantity actually drawn from the Thames was somewhat greater than that stated above, and from the Lea somewhat less, as during the summer months the East London Company have exercised their powers to draw 10,000,000 gallons daily from the Thames at Sunbury.

The samples of water employed for analysis were in all cases taken directly from the mains at places recommended by the respective Companies themselves. Each sample of water has been submitted to the ordinary process of chemical analysis, and in addition the temperature of the waters as they issued from the mains, as well as their appearance in a two-foot tube, has been recorded; whilst in all cases in which the samples were found to be more or less turbid, the suspended matter, which was deposited on standing, was examined under the microscope. The results of these examinations are recorded in the accompanying tables A. to L.

Table A. contains the temperature of each sample at the time of collection from the main. From this table it is seen that the average temperature of all the river waters is practically identical, and that this average differs but slightly from the mean temperature of the deep-well water of the Kent Company. On the other hand it will be observed that the river waters are subject to great fluctuations in temperature according to the season of the year, whilst the temperature of the deep-well water remains almost constant throughout, thus:—

The Thames water sent out by the Chelsea, West Middlesex, Southwark, Grand Junction, and Lambeth Companies exhibited variations in temperature from 2°·8 C. (37°·0 Fahr.) in January to 21°·4 C. (70°·5 Fahr.) in July.

The Lea water as supplied by the New River and East London Companies varied in temperature from 3°·4 C. (38°·1 Fahr.) in January to 20°·5 C. (69° Fahr.) in July.

The deep-well water distributed by the Kent Company had a temperature varying from 12°·0 C. (53°·6 Fahr.) in January, February, and November to 14°·5 C. (58°·1 Fahr.) in August.

In consequence of this uniform temperature the deep-well water remains refreshing and palatable in summer, whilst in the winter it diminishes the risk of frozen pipes, and is free from the other inconveniences of water but slightly removed from the freezing point.

In Table B. are recorded the total amount of solid matters contained in 100,000 parts by weight of the waters respectively. These solid matters are almost entirely composed of saline substances, which are of no consequence as regards the fitness of the waters for drinking; but salts of lime and magnesia render the waters hard for washing, and, by producing boiler incrustations, are objectionable when the water is used for steam purposes. These solid matters also always contain a small proportion of organic substances, which, although unobjectionable as regards their absolute amount, must, in the case of the river waters, be necessarily viewed with suspicion, when it is remembered that the rivers Thames and Lea receive, above the intakes of the Companies, more or less animal contamination, whether from sewers, or cesspools, from sewage works, or the drainage from manured land. These animal substances may all of them be at any time accompanied by morbid matter capable of producing zymotic disease, and the subsequent treatment of the water, although it greatly diminishes the risk, does not ensure the entire removal of such matters should they be present.

The largest proportion of total solid matters was present in the deep-well water supplied by the Kent Company and by the Tottenham Local Board of Health, whilst the water distributed by the Colne Valley Company contained but little more than one-third of that in the other two deep-well supplies.

In Tables C. and D. the results of the determinations of organic carbon and nitrogen by combustion are recorded, and by means of these figures we are able to compare the relative proportions of organic matter present in the various waters. These tables show that during the greater part of the year, from March to October inclusive, the proportion of organic matter in the river waters was unusually small, resembling in this respect the exceptional features exhibited in the previous year. During the winter months, however, both in the beginning and at the close of the year, the proportion of organic matter in the river waters rose very considerably, so that the average proportion for the year was somewhat greater than that for 1884. The proportion of organic matter in the deep-well waters was invariably less than in any of the river waters, excepting the New River Company's supply, which during the greater part of the year was, as regards freedom from organic matter, surpassed only by the best of the deep-well waters.

Taking the mean proportion of organic impurity contained in the Thames water delivered in 1868 as 1,000, I find that in the subsequent years, 1885 included, the following proportions were present :—

Year.	Proportion of organic impurity present in Thames water as delivered in London.
1868	1,000
1869	1,016
1870	795
1871	928
1872	1,243
1873	917
1874	933
1875	1,030



# MAXIMUM & MINIMUM PROPORTION OF ORGANIC MATTER IN WATER FROM THAMES & DEEP WELLS.

\* A.

Elements of—  
Organic Matter in  
Parts per 100,000







# MAXIMUM & MINIMUM PROPORTION OF ORGANIC MATTER IN RIVER LEA WATER.

\*B.

Elements of  
Organic Matter in  
Parts per 100,000







Year.	Proportion of organic impurity present in Thames water as delivered in London.					
1876	-	-	-	-	-	903
1877	-	-	-	-	-	907
1878	-	-	-	-	-	1,056
1879	-	-	-	-	-	1,165
1880	-	-	-	-	-	1,254
1881	-	-	-	-	-	993
1882	-	-	-	-	-	1,033
1883	-	-	-	-	-	850
1884	-	-	-	-	-	723
1885	-	-	-	-	-	839

These figures show that the average quality of the Thames water supplied to London, as measured by the proportion of organic matter, has, during the past three years (1883-1885), been superior to that supplied in any previous year, excepting 1870, since these examinations were commenced.

In the case of the water drawn from the river Lea, that supplied by the New River Company invariably contained less organic matter than that delivered by the East London Company, which was only rarely superior to the better classes of Thames water.

Taking, as before, the mean proportion of organic impurity in the Thames water supplied to London in 1868 as 1,000, I find in that and the succeeding years, 1885 included, the following proportions in the Lea water delivered by the New River and East London Companies :—

Year.	Proportion of organic impurity present in Lea water as delivered in London.					
1868	-	-	-	-	-	484
1869	-	-	-	-	-	618
1870	-	-	-	-	-	550
1871	-	-	-	-	-	604
1872	-	-	-	-	-	819
1873	-	-	-	-	-	693
1874	-	-	-	-	-	583
1875	-	-	-	-	-	751
1876	-	-	-	-	-	562
1877	-	-	-	-	-	596
1878	-	-	-	-	-	747
1879	-	-	-	-	-	947
1880	-	-	-	-	-	1,013
1881	-	-	-	-	-	765
1882	-	-	-	-	-	711
1883	-	-	-	-	-	620
1884	-	-	-	-	-	500
1885	-	-	-	-	-	603

Thus in the case of the Lea, also, the average quality of the water supplied during the past three years has exhibited a marked improvement upon that delivered during the years which immediately preceded this period.

The organic matter present in the deep-well water supplied to London, when compared with the same standard, was :—

Year.		
1868	-	254
1869	-	312
1870	-	246
1871	-	150
1872	-	221
1873	-	250
1874	-	287
1875	-	250
1876	-	246
1877	-	243
1878	-	323
1879	-	387
1880	-	393
1881	-	405
1882	-	409
1883	-	321
1884	-	264
1885	-	200

Thus the average proportion of organic matter in the deep-well waters was less than one-fourth of that present in the Thames, and barely more than one-third of that in the Lea water. The superiority of the deep-well waters, however, becomes even still more apparent when it is remembered that these waters have undergone a most exhaustive process of natural filtration through porous strata, whilst the river waters are subjected to filtration through only a few feet of sand.

With regard to the water supplied by the Tottenham Local Board of Health, it must be mentioned that, although the samples submitted to analysis are exclusively derived from their deep well, the water actually delivered to the district is not wholly obtained from this source, but is sometimes, I believe, more or less supplemented from the mains of the East London Company.

Table E. exhibits the proportional amount of organic elements (organic carbon and organic nitrogen) in each of the waters, the average amount of these elements contained in the Kent Company's water during the nine years ending December 1876 being taken as unity. This Table shows that the maximum, minimum, and average proportions of organic matter, as measured by this standard, present in the several waters, during 1885, were:—

Sources.		Maximum.	Minimum.	Average.
Deep wells	{ Kent	0·8	0·2	0·5
	{ Colne Valley	1·4	0·4	0·8
	{ Tottenham	1·6	0·6	1·1
River Lea	{ New River	3·9	0·7	1·8
	{ East London	5·6	1·7	3·2
River Thames	{ Chelsea	5·4	1·6	3·2
	{ West Middlesex	6·5	2·1	3·5
	{ Southwark	5·4	1·5	3·6
	{ Grand Junction	7·1	1·2	3·6
	{ Lambeth	5·7	2·1	3·2

These figures afford a general survey of the quality of the various waters, as regards organic matter, throughout the year. Thus, of the water derived from deep wells, it is seen that the supply of the Kent Company was the best, and of the river waters, the New River Company's supply stands first and is far superior



to any of the others. The greatest variation is exhibited by the water of the Grand Junction Company, which, of the Thames supplies, contained both the smallest and the largest proportions of organic matter, the average proportion, however, being only equalled by that of the Southwark Company.

These two Companies are still provided with very inadequate storage capacity for unfiltered water, but having now constructed works for the collection of water from the gravel beds, they are less dependent upon the river itself when the latter is in a flooded condition. These periodical floods to which the rivers Thames and Lea are exposed constitute the greatest difficulty with which the Companies drawing from these sources have to contend, more especially during the winter months. In order to render themselves more independent of the river water when in its worst condition, several of the Companies have, from time to time, increased their storage capacity, and this improvement has had a very beneficial effect upon the average quality of the water which they supply, as is seen from the following table, which shows the maximum amount of organic pollution in the waters supplied from the Thames and Lea during the years 1868 to 1885 inclusive, the average of the samples from each source in the month of greatest pollution being taken for comparison:—

MAXIMUM AMOUNT OF ORGANIC POLLUTION.

THAMES.			LEA.		
Year.	Elements of organic matter in parts per 100,000.	Months in which maximum pollution occurred.	Year.	Elements of organic matter in parts per 100,000.	Months in which maximum pollution occurred.
1868	·45	January.	1868	·27	February.
1869	·60	February.	1869	·33	February.
1870	·42	January.	1870	·30	January.
1871	·52	October.	1871	·22	February.
1872	·48	January & December.	1872	·39	December.
1873	·46	January.	1873	·33	January.
1874	·37	March.	1874	·21	March.
1875	·49	November.	1875	·28	November.
1876	·44	December.	1876	·24	March.
1877	·40	January.	1877	·30	January.
1878	·36	December.	1878	·26	June.
1879	·38	February.	1879	·33	July.
1880	·42	October.	1880	·33	February.
1881	·34	February.	1881	·34	February.
1882	·37	November.	1882	·26	December.
1883	·32	January.	1883	·24	December.
1884	·27	February.	1884	·20	March.
1885	·35	November.	1885	·28	December.

It thus appears that the maximum amount of organic matter found in the Thames supplies was greater than that in the two previous years, owing to the prolonged floods which prevailed during the month of November.

The general improvement in this respect, however, is strikingly exhibited by the table, and is further illustrated by the accompanying diagrams (\*A. & \*B.), in which the maximum and minimum proportions of organic matter annually present in each of the three classes of water since 1868 are represented by curves.

Tables F. and G. require no comment.

In Table H. is recorded the total amount of combined nitrogen present in each of the waters. This amount, after making a small correction for the average quantity of combined nitrogen in rain-water, constitutes the whole evidence exhibited by the various waters of the nitrogenous organic substances which they have in the past received as well as of those which they still retained at the time when the analyses were made. In river and other surface waters the quantity of this total combined nitrogen undergoes considerable reduction during the summer months in consequence of the vegetable life then active in these waters, and on this account it is only in the winter months that the amount found can be regarded as in any way a gauge of the nitrogenous matters which have gained access to the water. During the months of January, February, March, October, November, and December the average proportion of total combined nitrogen in 100,000 parts was :—

Year.	Thames.	Lea.	Deep-Wells.
1879	·281	·310	·317
1880	·276	·284	·294
1881	·260	·294	·306
1882	·258	·304	·294
1883	·259	·329	·353
1884	·244	·273	·301
1885	·233	·277	·292

This progressive reduction which has thus taken place in the amount of combined nitrogen found in the Thames supplies is, in all probability, chiefly due to the longer period of storage to which the water has, of late years, generally been subjected before distribution, for during very prolonged storage in natural lakes the inorganic combined nitrogen almost entirely disappears.

The deep-well water of the Kent and Colne Valley Companies and of the Tottenham Local Board of Health is not exposed to the influences of either vegetable or animal life, and the average proportion of total combined nitrogen given above has, therefore, been taken on the entire year.

In Table I. the proportion of chlorine present in each of the waters is given. From these figures it is evident that no brackish or tidal water has gained access to the companies' supplies.

Table K. records the hardness of the various waters; by hardness is to be understood the proportion of carbonate of lime, or its equivalent of soap-destroying substances, present in 100,000 parts of water. The variations in this respect during the past 5 years for the various classes of water are shown in the following table :—

Year.	Thames.	Lea.	Kent.	Colne Valley.	Tottenham.
1881	19°·8	20°·8	28°·3	6°·2	24°·1
1882	20°·7	21°·1	28°·5	5°·5	25°·4
1883	19°·9	20°·6	28°·0	7°·1	22°·5
1884	19°·4	20°·1	28°·6	5°·2	19°·7
1885	18°·7	20°·0	27°·9	4°·8	20°·4

The hardness of water, within the limits exhibited above, is of no material importance when the water is used for drinking, but in the laundry, for the production of steam, and for most manufacturing purposes, a soft water like that of the Colne Valley Company possesses great advantages over a hard one. In all operations in which soap is used as a detergent it is absolutely necessary to have soft water, and if the water be not already soft it must be rendered so before the soap can exert its cleansing properties. This preliminary softening is often



accomplished by means of carbonate of soda so as to avoid the still greater cost which softening by soap entails. On the large scale many waters can be softened by means of lime (Clark's process) for about one-eightieth part of the cost of the soap required for the purpose. Of the water supplied to London, only that furnished by the Colne Valley Company is well fitted for washing and the other purposes specified above. The water of this Company is naturally hard like that of the Kent Company, but its hardness is, before delivery, reduced by means of Clark's process to less than one fifth of that present in the water of the Kent Company. The hardness of the river waters could be similarly reduced by this process.

In Table L., lastly, the averages for the past year, of each determination referred to above are collected, so that by its means a general view can be obtained of the quality of the water supplied by each Company throughout the year.

The results of my monthly observations respecting the efficiency of the filtration to which the water drawn from the Thames and Lea had been subjected before distribution are summarized in the following Table, and, by way of comparison, the results of my first observations in 1868 are also recorded :—

COMPANIES OR LOCAL AUTHORITIES.	Number of occasions when clear and transparent.		Number of occasions when slightly turbid.		Number of occasions when turbid.		Number of occasions when very turbid.	
	1868.	1885.	1868.	1885.	1868.	1885.	1868.	1885.
<b>THAMES.</b>								
Chelsea - - - -	7	12	2	0	1	0	2	0
West Middlesex - - -	12	12	0	0	0	0	0	0
Southwark - - - -	1	12	5	0	4	0	2	0
Grand Junction - - -	9	11	2	1	1	0	0	0
Lambeth - - - -	6	12	1	0	2	0	3	0
<b>LEA.</b>								
New River - - - -	10	12	2	0	0	0	0	0
East London - - - -	3	12	8	0	1	0	0	0
<b>DEEP WELLS.</b>								
Kent - - - -	8	12	3	0	1	0	0	0
Colne Valley - - - -	-	11	-	0	-	1	-	0
Tottenham Local Board of Health - - - -	-	12	-	0	-	0	-	0

It will thus be seen that of all the samples of river water examined throughout the year, only one was otherwise than clear and bright. The contrast between this result and the condition of filtration in 1868 is sufficiently apparent from the Table, but even as compared with the preceding year, 1884, the results obtained for the past year indicate a very marked improvement, for out of the same number of samples examined in 1884 as many as eight were slightly turbid, whilst last year only one sample exhibited any turbidity. This more uniform freedom from turbidity is of the highest importance as indicating the greater care which is now exercised by the Companies, firstly, in abstracting the water from the rivers under the most favourable conditions, and, secondly, in submitting it when so abstracted to a more efficient system of filtration before delivery.

The turbidity found in one of the samples of the Colne Valley Company's water was due to the presence of chalk occasioned by the boring operations which were at the time going on in connection with their well. Otherwise the deep-well water furnished both by this and the Kent Company, and by the Tottenham Local Board of Health, is uniformly clear and bright, and requires, therefore, no artificial filtration.

The sediment deposited by the turbid samples on standing was, as usual, submitted to microscopic examination, without, however, any moving organisms being dis-

covered in the sediment deposited. In the following Table the results of microscopic examinations, made during the past 17 years, are collected :—

NUMBER of OCCASIONS when MOVING ORGANISMS were found.

	1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Chelsea -	3	2	2	3	2	5	4	4	1	0	2	0	0	0	0	0	0
West Middlesex -	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0
Southwark -	8	1	4	1	2	5	5	7	5	3	0	0	0	0	0	0	0
Grand Junction -	4	1	1	2	3	5	7	3	3	3	1	3	3	0	1	0	0
Lambeth -	5	0	4	6	3	4	5	4	1	1	0	2	1	1	1	1	0
New River -	0	0	0	0	1	1	0	0	1	0	0	2	0	0	0	0	0
East London -	4	3	3	1	0	2	0	0	0	0	2	0	0	1	0	0	0
Kent -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Colne Valley -	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0
Tottenham -	-	-	-	-	-	-	-	-	0	0	0	0	0	0	1	0	0

In a still more striking manner is the improvement effected in the river waters by filtration revealed by the determinations of the relative number of micro-organic spores or germs present in a given volume of the raw and filtered waters. These determinations have been made by my son, Dr. Percy Frankland, during the past year, and the results are recorded in his report to the Local Government Board. They show that whilst the unfiltered Thames water exhibited by gelatine cultivation, on an average, 2,219 germs per cubic centimetre, the filtered water contained only 38, which corresponds to a reduction of 98·3 per cent.

I am, &c.

E. FRANKLAND.

The Registrar General, &c., &c.  
Somerset House, W.C.



TABLE A.

TEMPERATURE (in Centigrade degrees) of the METROPOLITAN WATERS, as delivered from the different Companies' Mains.

COMPANIES OR LOCAL AUTHORITIES.		1885.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea - - -	3·8	5·9	6·2	12·0	12·2	17·6	19·4	17·8	13·9	10·5	7·5	6·0	11·1
	West Middlesex - -	4·0	6·8	7·5	14·7	13·3	19·2	20·7	19·7	14·3	10·5	8·0	5·5	12·0
	Southwark - - -	4·4	6·8	7·5	14·2	13·5	19·7	21·4	19·7	12·6	10·3	8·1	5·0	11·9
	Grand Junction - -	2·8	6·0	6·8	13·7	12·8	19·6	20·3	18·7	13·4	9·5	8·0	4·0	11·3
	Lambeth - - -	3·7	6·4	6·9	13·4	12·9	19·3	20·3	18·0	14·3	10·1	8·0	4·0	11·4
	LEA.													
	New River - - -	3·4	5·9	6·8	11·9	13·0	19·6	20·5	18·2	13·5	9·9	7·4	5·2	11·3
	East London - - -	3·8	6·0	7·2	13·7	12·7	19·4	20·5	18·0	13·2	9·9	7·5	5·1	11·4
Outer Circle.	DEEP WELLS.													
	Kent - - -	12·0	12·0	12·6	13·5	13·5	13·6	14·2	14·5	14·2	12·3	12·0	13·2	13·1
	Colne Valley - - -	—	—	—	—	—	—	—	—	—	—	—	—	—
	Tottenham Local Board - - -	—	—	—	—	—	—	—	—	—	—	—	—	—

TABLE B.

WEIGHT of SOLID MATTERS in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1885.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea - - -	30·78	31·04	30·24	26·06	25·34	23·82	23·18	23·68	26·28	22·64	27·64	30·96	26·80
	West Middlesex - -	30·50	30·40	30·60	26·04	24·94	24·76	23·34	22·94	24·14	26·10	30·04	31·84	27·14
	Southwark - - -	31·16	29·74	30·04	26·62	24·80	25·24	23·12	23·56	26·48	26·98	30·04	33·70	27·64
	Grand Junction - -	27·90	30·14	30·46	25·40	25·26	24·86	24·60	23·56	24·86	27·44	31·14	33·36	27·41
	Lambeth - - -	25·50	27·26	30·50	27·30	25·94	26·46	24·58	24·00	26·00	27·34	27·80	33·82	27·21
	LEA.													
	New River - - -	31·80	31·32	28·14	24·20	24·06	25·14	25·26	24·68	25·84	29·40	31·84	32·00	29·47
	East London - - -	35·54	36·70	34·90	27·94	28·74	27·80	24·48	23·26	27·16	31·28	35·24	35·84	30·74
Outer Circle.	DEEP WELLS.													
	Kent - - -	41·36	35·40	37·12	35·14	31·70	41·30	40·78	34·30	36·80	41·38	42·70	39·80	38·15
	Colne Valley - - -	13·50	13·96	13·64	12·70	12·24	13·66	12·84	13·44	13·74	11·50	12·00	14·72	13·16
	Tottenham Local Board - - -	35·86	35·34	37·26	35·60	35·94	36·84	36·56	36·80	37·64	37·66	38·20	37·22	36·74

TABLE C.

ORGANIC CARBON in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1885.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
Inner Circle.	THAMES.													
	Chelsea - - -	·166	·188	·192	·124	·107	·113	·131	·074	·126	·168	·216	·269	·156
	West Middlesex - -	·171	·210	·218	·144	·121	·115	·098	·096	·155	·185	·323	·313	·179
	Southwark - - -	·221	·286	·181	·134	·110	·165	·115	·069	·143	·198	·278	·243	·179
	Grand Junction - -	·255	·314	·150	·124	·100	·151	·104	·051	·131	·144	·363	·231	·177
	Lambeth - - -	·181	·179	·174	·153	·108	·134	·099	·099	·103	·123	·259	·276	·157
	LEA.													
	New River - - -	·085	·080	·100	·074	·058	·058	·032	·028	·072	·043	·183	·199	·084
	East London - - -	·192	·200	·200	·092	·141	·145	·104	·082	·112	·126	·218	·281	·158
Outer Circle.	DEEP WELLS.													
	Kent - - -	·039	·024	·033	·006	·005	·008	·027	·020	·024	·023	·030	·027	·022
	Colne Valley - - -	·042	·054	·070	·025	·042	·043	·016	·024	·037	·026	·028	·056	·039
	Tottenham Local Board - - -	·058	·055	·048	·052	·063	·051	·024	·024	·060	·059	·043	·071	·051

TABLE D.

ORGANIC NITROGEN in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1885.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.		Mean.	
Outer Circle.	THAMES.													
	Chelsea - - -	*017	*017	*033	*031	*025	*026	*037	*023	*031	*032	2	*031	
	West Middlesex - -	*028	*021	*031	*024	*027	*029	*023	*030	*022	*030	2	*033	
	Southwark - - -	*053	*025	*030	*023	*021	*033	*020	*022	*024	*032	4	*033	
	Grand Junction - -	*043	*033	*023	*028	*017	*036	*037	*021	*036	*026	6	*034	
	Lambeth - - -	*046	*019	*021	*032	*024	*036	*034	*026	*022	*027	43	*034	
Inner Circle.	LEA.													
	New River - - -	*015	*012	*019	*017	*017	*021	*014	*014	*015	*011	*050	*029	*020
	East London - - -	*043	*019	*034	*026	*025	*028	*031	*019	*023	*024	*040	*051	*030
Outer Circle.	DEEP WELLS.													
	Kent - - -	*010	*006	*006	*005	*003	*007	*009	*008	*006	*007	*007	*013	*007
	Colne Valley - - -	*012	*012	*010	*012	*013	*015	*009	*011	*010	*011	*006	*019	*012
	Tottenham Local Board - - -	*013	*012	*017	*020	*017	*015	*011	*009	*011	*017	*015	*021	*015

TABLE E.

PROPORTIONAL AMOUNT OF ORGANIC ELEMENTS, that in the KENT COMPANY'S WATER during the  
Nine Years ending December 1876 being taken as 1.

COMPANIES OR LOCAL AUTHORITIES.		1885.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea - - -	3.1	3.5	3.8	2.6	2.2	2.4	2.8	1.6	2.7	3.4	4.5	5.4	3.2
	West Middlesex - -	3.4	3.9	3.9	2.8	2.5	2.4	2.1	3.0	3.6	6.5	6.4	3.5	
	Southwark - - -	4.6	5.3	3.6	2.7	2.2	3.4	2.3	1.5	2.8	3.9	5.4	5.1	3.6
	Grand Junction - -	5.1	5.9	2.9	2.6	2.0	3.2	2.4	1.2	2.8	2.9	7.1	4.9	3.6
	Lambeth - - -	3.8	3.4	3.3	3.1	2.2	2.9	2.3	2.1	2.1	2.5	5.7	5.4	3.2
Inner Circle.	LEA.													
	New River - - -	1.7	1.6	2.0	1.5	1.3	1.3	0.8	0.7	1.5	0.9	3.9	3.9	1.8
	East London - - -	4.0	3.7	3.9	2.0	2.8	2.9	2.3	1.7	2.3	2.5	4.4	5.6	3.2
Outer Circle.	DEEP WELLS.													
	Kent - - -	0.8	0.5	0.7	0.2	0.2	0.3	0.6	0.5	0.5	0.5	0.6	0.7	0.5
	Cotise Valley - - -	0.9	1.1	1.4	0.6	0.9	1.0	0.4	0.6	0.8	0.6	0.6	1.3	0.8
	Tottenham Local Board - - -	1.2	1.1	1.1	1.2	1.4	1.1	0.6	0.6	1.2	1.3	1.0	1.6	1.1

TABLE F.

AMMONIA in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1885.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea - - -	0	0	0	0	0	0	0	0	0	0	0	0	0
	West Middlesex - - -	0	0	0	0	0	0	0	0	0	0	0	0	0
	Southwark - - -	0	0	0	0	0	0	0	0	0	0	0	0	0
	Grand Junction - - -	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lambeth - - -	0	0	0	0	0	0	0	0	0	0	0	0	0
LEA.														
	New River - - -	0	0	0	0	0	0	0	0	0	0	0	0	0
	East London - - -	0	0	0	0	0	0	0	0	0	0	0	0	0
Outer Circle.	DEEP WELLS.													
	Kent - - -	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cole Valley - - -	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tottenham Local Board - - -	*050	*050	*050	*060	*060	*040	*040	*065	*060	*060	*060	*075	*050



NITROGEN as NITRATES and NITRITES in 100,000 parts of the WATERS.

TABLE H.

TABLE I.

[illegible]

TABLE K.

DEGREES of HARDNESS (1 deg. = 1 part of carbonate of lime, or its equivalent,) in 100,000 WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1885.											Mean.
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.		
Inner Circle.	THAMES.												
	Chelsea - - -	20·6	20·0	19·7	18·6	17·1	16·9	16·9	16·9	17·7	15·	9·7	18·2
	West Middlesex - -	20·6	20·0	20·0	19·7	17·7	18·6	16·9	16·0	16·9	18·	21·5	18·8
	Southwark - - -	21·2	19·1	20·0	19·1	17·7	18·6	16·3	16·9	17·7	18·6	22·4	18·9
	Grand Junction - -	18·6	19·1	20·0	19·1	18·0	18·6	17·1	16·6	16·9	19·1	20·	18·8
	Lambeth - - -	18·0	18·6	20·3	20·3	18·3	19·3	17·7	17·1	18·0	18·9	18·0	18·9
Outer Circle.	LEA.												
	New River - - -	21·5	22·1	18·8	18·9	17·1	18·0	18·3	17·1	18·9	20·9	21·2	19·6
	East London - - -	23·3	22·7	21·5	20·0	18·9	19·1	17·4	16·6	18·3	21·5	22·4	20·4
	DEEP WELLS.												
	Kent - - -	29·3	26·5	26·4	28·6	25·7	29·3	30·0	25·7	26·5	29·3	30·0	27·9
	Colne Valley - - -	5·6	4·6	5·7	4·7	4·9	5·4	3·4	5·0	5·3	3·3	3·6	4·8
Tottenham Local Board - - -		20·0	20·0	20·6	21·8	19·1	20·6	20·6	18·9	19·1	20·6	21·5	20·4

TABLE L.

AVERAGES FOR 1885.

The numbers in this Table relate to 100,000 parts of each Water.

COMPANIES OR LOCAL AUTHORITIES.		Temperature in Cen- tigrade Degrees.	Total Solid Matters.	Organic Carbon.	Organic Nitrogen.	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total combined Ni- trogen.	Chlorine.	Total Hardness.	Proportional Amount of Organic Elements, that in the Kent Company's Water during the 9 years ending Dec. 1876 being taken as 1.
Inner Circle.	THAMES.	°									
	Chelsea - - -	11·1	26·80	·156	·031	0	·187	·218	1·8	18·2	3·2
	West Middlesex - -	12·0	27·14	·179	·033	0	·203	·236	1·8	18·8	3·5
	Southwark - - -	11·9	27·64	·179	·033	0	·216	·249	1·8	18·9	3·6
	Grand Junction - -	11·3	27·41	·177	·034	0	·198	·232	1·8	18·8	3·6
	Lambeth - - -	11·4	27·21	·157	·034	0	·197	·231	1·8	18·9	3·2
Outer Circle.	LEA.										
	New River - - -	11·3	29·47	·084	·020	0	·247	·267	1·7	19·6	1·8
	East London - - -	11·4	30·74	·153	·030	0	·256	·286	2·0	20·4	3·2
	DEEP WELLS.										
	Kent - - -	18·1	38·15	·022	·007	0	·426	·433	2·4	27·9	0·5
	Colne Valley - - -	—	13·16	·039	·012	0	·367	·379	1·9	4·8	0·8
Tottenham Local Board - - -		—	36·74	·051	·015	·056	·002	·063	2·4	20·4	1·1

NOTE.—The numbers in these tables may be converted into grains per imperial gallon, by multiplying them by 7, and moving the decimal point one place to the left.





FIRES IN LONDON DURING THE YEAR 1885.

Captain Eyre M. Shaw, Chief Officer of the Metropolitan Fire Brigade, reported to the Metropolitan Board of Works that the number of fires attended during 1885 was 2270, showing a decrease of 19 from the number in the preceding year, but being 441 above the average in the ten years 1875-84. The lives of 201 persons were seriously endangered, and 47 of these were lost. The numbers of lives lost by fires in London in the three preceding years were 39, 39, and 42 respectively.

The establishment of the Metropolitan Fire Brigade at the end of the year was distributed at 55 engine, 26 hose cart, 127 escape, and 4 floating stations. The number of fire engines at these stations was 170, showing a decrease of 1 from the number in the previous year; 4 were floating steam engines, 42 land steam engines, and 124 manual engines. The strength of the brigade was 589 of all ranks, including the chief officer and the superintendents, and corresponded with the strength in the previous year. The cases of injury occurring in the brigade during the year were 117, against 121, 92, and 142 in the three previous years.

**Number of Fires and of False Alarms** attended during the Twelve Years 1874-85, and in each Month of 1885.

YEARS AND MONTHS.	TOTAL CALLS.	FALSE ALARMS AND CHIMNEYS.	FIRES.					
			Serious.	Slight.	Total.	Per-centages.		
						Serious.	Slight.	
1874 - - -	1750	177	154	1419	1573	9·8	90·2	
1875 - - -	1668	138	163	1366	1529	10·7	89·3	
1876 - - -	1787	155	166	1466	1632	10·2	89·8	
1877 - - -	1708	175	159	1374	1533	10·4	89·6	
1878 - - -	1881	222	170	1489	1659	10·2	89·8	
1879 - - -	1949	231	159	1559	1718	9·3	90·7	
1880 - - -	2194	323	162	1709	1871	8·7	91·3	
1881 - - -	2376	385	167	1824	1991	8·4	91·6	
1882 - - -	2341	415	164	1762	1926	8·5	91·5	
1883 - - -	2630	486	184	1960	2144	8·6	91·4	
1884 - - -	2806	517	194	2095	2289	8·5	91·5	
1885 - - -	2851	581	160	2110	2270	7·0	93·0	
1885.	January - -	250	59	6	185	191	3·1	96·9
	February - -	178	43	6	129	135	4·4	95·6
	March - - -	232	53	10	169	179	5·6	94·4
	April - - -	241	47	13	181	194	6·7	93·3
	May - - -	243	52	20	171	191	10·5	89·5
	June - - -	269	43	16	210	226	7·1	92·9
	July - - -	275	53	17	205	222	7·7	92·3
	August - -	262	47	18	197	215	8·4	91·6
	September -	230	64	18	148	166	10·8	89·2
	October - -	207	34	15	158	173	8·7	91·3
	November -	205	38	7	160	167	4·2	95·8
	December -	259	48	14	197	211	6·6	93·4

The number of votes and of valid returns obtained during the Twelfth Year 1811, and  
 in each House of Parliament.

The number of votes obtained by the several candidates in the House of Commons, and the number of valid returns obtained by the several candidates in the House of Lords, in the Twelfth Year 1811, and in each House of Parliament.

The number of votes obtained by the several candidates in the House of Commons, and the number of valid returns obtained by the several candidates in the House of Lords, in the Twelfth Year 1811, and in each House of Parliament.

House of Commons		House of Lords		Total		Valid Returns	
Candidate	Votes	Candidate	Votes	Candidate	Votes	Candidate	Votes
1	100	1	100	1	100	1	100
2	90	2	90	2	90	2	90
3	80	3	80	3	80	3	80
4	70	4	70	4	70	4	70
5	60	5	60	5	60	5	60
6	50	6	50	6	50	6	50
7	40	7	40	7	40	7	40
8	30	8	30	8	30	8	30
9	20	9	20	9	20	9	20
10	10	10	10	10	10	10	10
11	0	11	0	11	0	11	0
12	0	12	0	12	0	12	0
13	0	13	0	13	0	13	0
14	0	14	0	14	0	14	0
15	0	15	0	15	0	15	0
16	0	16	0	16	0	16	0
17	0	17	0	17	0	17	0
18	0	18	0	18	0	18	0
19	0	19	0	19	0	19	0
20	0	20	0	20	0	20	0
21	0	21	0	21	0	21	0
22	0	22	0	22	0	22	0
23	0	23	0	23	0	23	0
24	0	24	0	24	0	24	0
25	0	25	0	25	0	25	0
26	0	26	0	26	0	26	0
27	0	27	0	27	0	27	0
28	0	28	0	28	0	28	0
29	0	29	0	29	0	29	0
30	0	30	0	30	0	30	0

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